FILE NOTATIONS	
Entered in NID File	Checked by Chief
Entered On S R Sheet	Copy NID to Field Office
Location Map Pinned	Approval Letter
Card Indexed	Disapproval Letter
I W R for State or Fee Land	
COMPLETION DATA:	
Date Well Completed	Location Inspected
OW TA	Bond released
GW OSPA	State of Fee Land
LOGS	FILED
Driller's Log	
Electric Logs (No. )	
	. GR Micro
	ic Others Dodes retirity Rog

7.

#### Budget Busens No. 48-1906. Approval expires 11-80-46.

# 0 8

#### (SUBMIT IN TRIPLICATE)

## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Land Office	Sult Lake C	IJ
Losso No	96931.2	
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/ ^	OT1 10E1	1

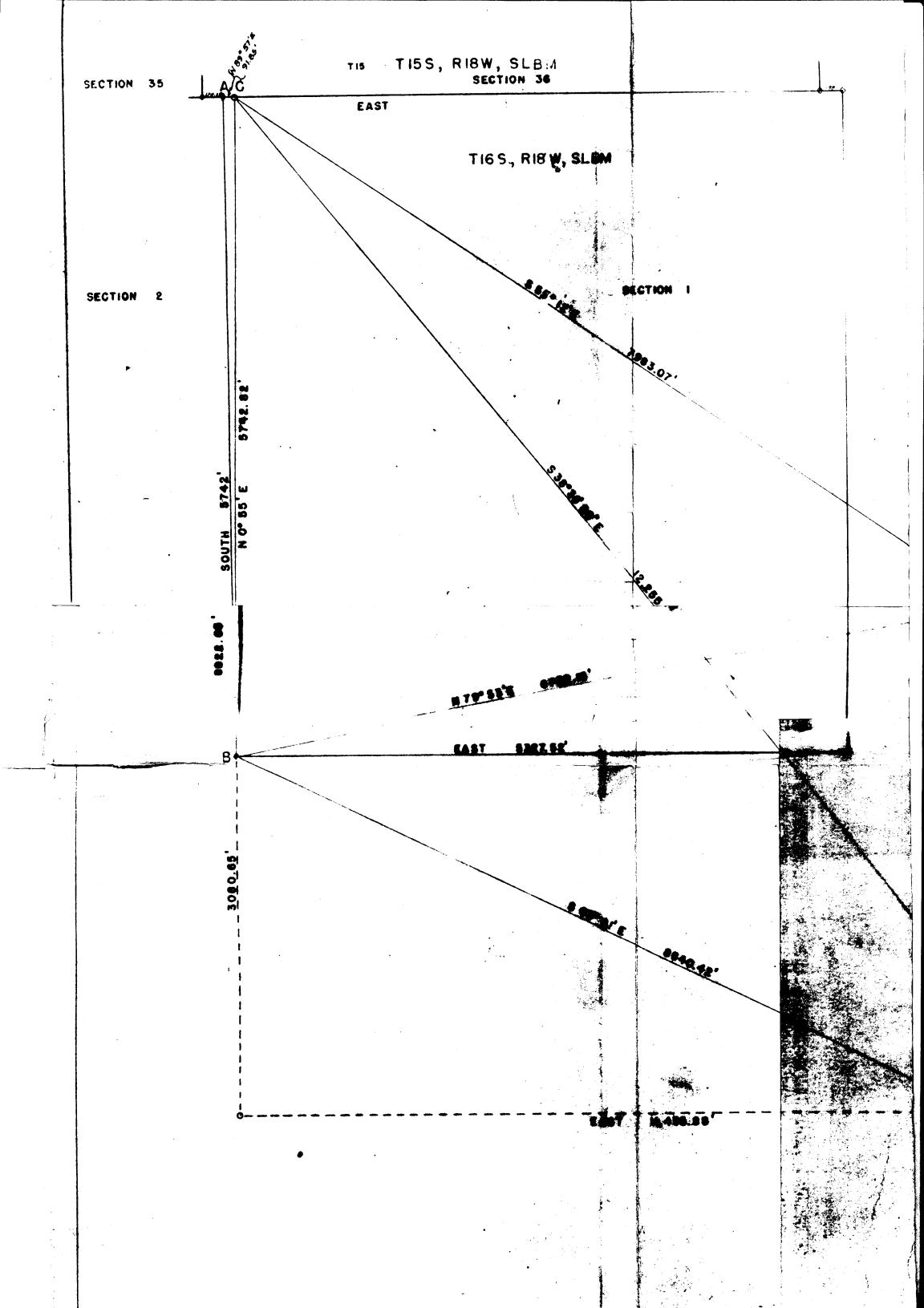
8	GEC	LOGICAL SURVE	Y		- /
	enomit for	varided to casper	İ	OCT1	- 1951
SU	NDRY NOTICES		RTS ON	WELLS:	STANEY UTAH
NOTICE OF INTENTIO	N TO DRILL	SUBSEQUENT R	EPORT OF WATER SH		
NOTICE OF INTENTIO	N TO CHANGE PLANS	SUBSEQUENT R	EPORT OF SHOOTING	OR ACIDIZING	
NOTICE OF INTENTIO	N TO TEST WATER SHUT-OFF	SUBSEQUENT R	EPORT OF ALTERNIG	CASTRIG	
NOTICE OF INTENTIO	N TO RE-DRILL OR REPAIR WELL	SUBSEQUENT R	EPORT OF REDRILLI	IG OR REPAIR	
	# TO SHOOT OR ACIDIZE		EPORT OF ABANDON	ABIT	
NOTICE OF INTENTIO	N TO PULL OR ALTER CASING	SUPPLEMENTAR	Y WELL HISTORY		
NOTICE OF MILESTO	N TO ABARDON WELL				
	(JNINGATE ABOVE BY CHECK M	ARK NATURE OF REPORT, I	NOTICE, OR OTHER EM	(TA)	
Bishop Spring	a Buit			_	
			Soptember 1	<u> </u>	, 19. 🕰
_		tter and map at		are i	
Vell No. 1	is located ft.	from S line and	ft. from	n line of s	ес
		<b>K</b> (5)		(w)	
(% See, and See	Pounchip 165-18V (No.) (Top.)	(Range)	(Meridian)	•	
Bishop Spring		lard	(2444	Tick	
(Pield)		enty or Subdivision)		(State of Tecritory)	
ra 1 .· c	1 1 1 6 1	1 1: 6			
i he elevation of	the derrick floor above sea	level 18 ft	•		
	DET	TAILS OF WORK			
State names of and on	sected depths to objective sands; showing points, and	w <sub>g</sub> inee, weights, and longt	he of property casing	res indicate maddin	g jobe, coment-
Pognip format surface pipe. stan tested a clostric lag	posed well will be drien. Surface vaters Formations shouling and adequately tested will be run. Subsequently to the surface of	rilled to about will be shut a signs of oil a for conserval ant reports, is	8000', or 1 ff by a stel nd gas vill producing y	100° into thing of 13-3/ be established	/8º CO brill-
I understand that the	CER ATTACKED RINGS FO	R APPROVAL)	plani Survey before a	penalisms may be e	ommenced.
Company	al all terms and				<del></del>
Address	<b></b>	<del></del> .		· 🙈 🛕	

Title Separational of General

. COVERNMENT PRINTING OFFICE 16-84

JUL 1 8 1952

RESOLVE



#### CERTIFICATE

UNSURVE

I, ROGER W SHERIDAN, REGISTERED LAND SURVEYOR,
STATE OF UTAH, DO HEREBY CERTIFY THAT I
HAVE SURVEYED THIS WELL WHICH IS
LOCATED SOUTH 8822.65' & EAST 6120.30' 11,455.88
FROM THE NORTH-EAST CORNER OF TIES, RIBW,
SLBM.

authuilen

224

#### LEGEND

SECTION CORNERS ( NOT FOUND )

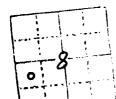
GULF OIL GORP.

#### (SUBMIT IN TRIPLICATE)

Land Otton Salt Lake City

UNITED STATES

Loss No. ... 069312 .... Histon Springs



DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

COLOMAL FORWARDED TO CASHER DEC 2 1 1951

	SUN	IDRY NOTICES AN	D REPORTS ON WELLS
۱	NOTICE OF INTENTION ON NOTICE OF INTENTION	TO DRILL TO CHANGE PLANS TO TEST WATER SHUT-OFF TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF SMOOTING OR ACIDIZING
ı	NOTICE OF INTENTION	TO SHOOT OR ACIDIZE TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY  Drill Stem Tost #1
	NOTICE OF INTENTION		ATURE OF REPORT, NOTICE, OR OTHER DATA)

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

	10
	is locatedft. from S line andft. from W line of sec/65! South and 11,455.88! East,  The property of Sec. 1-168-184 (Range)  (Range)  (State of Territory)
	Document 10 11. CXW5W4 Ser o
	when survey as should be
	ft. from wy line of sec.
	is locatedft. from (g) line and(w)
Well No1	13 /55 88° Easte
8822.	55 South and 1124750
Com NW CO	rner of 600. In Interior (Range) (Mercusa)
(14 Sec. and Se	1 No.)  (County or Subdivision)  (County or Subdivision)
\\\\-	(State of Territory)
Bishop Spr	(County or Subdivision)
_ (Newa)	
	the derrick floor above sea level isft.
The elevation of	the derrick facts and the
• • • • • • • • • • • • • • • • • • • •	
	DETAILS OF WORK.  spected depths to objective sands; show sizes, weights, and lengths of proposed easings; indicate mudding jobs, coment- spected depths to objective sands; show sizes, weights, and lengths of proposed work)
_	d double to shipetive sands; show since, weights, and seen con work)
(State names of and e	ing points, and an own

## Confirming Telephone Approved 12/7/51

HOWCO formation tester opened 2 FM on 12-8-51 on 200 EME tubing using 500 wall packer. Packer set at 23351. Tested 2335-24101 in the Upper Simonson Belowite, Ran 751 perforated eacher. Tool was open 22 hours. Received fair blow issediately. Dead in 10 minutes. Sembled two hours, recevering 72 bbls. per hour which was gray-green fresh water. Recovered 1075' clear fresh water when string pulled to recover tester. He shows. Rydrostatic pressure 1100 lbs. NEP 600%.

oct 5.6	. Sanderson - Tales.
I understand th	
Company	Original Signed By
Address	322 Devid Seith Signed By BALTRUSAITIS
	7. 0, See 1946
****	Date Sales Skip . West U
	A A Summer resonant worth

SEC. B		TWP. 16 8 RGE. 17 W LOCATION 8892.45' & 11.455.88' E from North-
J.C		Bishop Springs Unit No. 1 ELEVATION 5768
	Federal	****
OWNER .	_	STATE COUNTY DATE OCT. 7, 1951
SAMPLES F	1	The state of the s
FROM	10	LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS
		SPUDDED OCTOBER 7, 1951 III THE PILOT SHALE (LATE MISSISSIPPIAN - EAFLY
		DENONIAN) AN A POINT APPROXIMATELY 195 PAIN BELOW THE TOP OF THE
_		PITAN SHAND-JOANNA (MADISON) LEGITONE CONTACT.
C	34,0	ENDERFORM or organ, buff and gray, calcareous, brittle, moderately hard,
		abundant accordary calcite, limonite stained, slightly myritie, inter-
		bodded with
		MANTE block, fissle, very slightly calcureous, brittle, slightly
		mritte, becoming mottled toward bottom.
340	605	SHALD; block, calcarcous to non-calcarcous, earboraccous, slickensided,
		nyritio, brittle, becoming increasingly silty at bottom, moderately
		hard, heavily freetured, with rare bads of
		DESCRIPTION red, gray and buff, soft, calcareous, hematite stained.
		13 3/0" casing set at 522 feet.
<b>6</b> 05	ئ <i>ي</i> رين	SIMISTOR: buff and tan, as last above.
6.35	640	LI 1. 701334 dark brounish-gray, fine crystalline, hard, slightly silty to
		alightly argillaceous, cherty.
		LOST CHECHATION at 640 - regained in 1-1/2 hours.
640	670	CHIET: block, gray, brown, pure, secondary.
670	735	LIMESTORIA gray and brown, micro to fine crystalline, silty to argil-
		lassous, occasionally notular, interbodded with some
		SHALE, black, carbonascus, calcarecus, alickensided, silty.
<b>7</b> 35	730	SHITSTOLE: buff, very calcureous, soft with were thin bods of
		LURETON: brown and gray, very silty, slightly argillaceous, misro-
		crystalline.
780	840	LIBERTONE: brown, grey and mottled creem grey, micro-crystalline to dense,
		very silty, soft, argillaceous.
840	84.5	LI ESTORE: as last above and
		SHASTONE: pink, slightly exlearence, argillaceous with few floating,
		metium grained sand grains. SLEST OIL STAIN.
845	865	CORE NO. 1. Resovery 20 feet.
	-	SHALE: gray, dense, very silty, pyritie, very heavily fractured. Free-
	1	tures filled with white secondary caystalline calcute becoming darker,
		more dense and brittle toward bottom. We shows of gas or oil.

1226 865 SAMPLES FROM FROM то LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS 365 835 SHALE: as above core. 335 LEGATONE: chocolate brown, fine crystalline, hard, brittle, heavily 375 fractured with very abundant crystalline calcite fillings. 895 900 SILTSTOME: pink, very calcareous with floating SAND: medium grain, well-rounded. 905 900 QUARTERED clear to makey, medium grain, well-rounded to sub-rounded, commends in part, with light gray DOLOGITE, LOST CIRCULATION at 905 - remained in 2 hours. 905 940 LDESTONES dork gray to brown, micro-crystalline, abundant calcite with possesional thin beds of SILTSTONE: buff, calcareous, hard. 940 TOP GUILLETTE (UPPER DEVONIAN) 940 970 DOLOMITE: brown-gray, coarse exystalline, slightly vitroous, hard, fair poresity, heavily frestured, interbudded with LIESTONE; black to buff, fine crystalline, slightly silty to shaly, 970 975 QUARTZITE and QUARTZITIC SUNSTONE; pink, alightly doloratio, very hard. 975 1170 DULCHITE: brown-gray grading to lighter brown-gray, coarse crystalline, alightly vitreous, brittle, heavily freetured, pyritic. Top characterized by very rare, thin beds of LIMESTONE: gray, dense, silty and SILISTONE: buff, delectie, very fine grain, hard, LOST CITCULATION at 995 - drilled without returns to 1012 - circulation regained in 26 hours. LOST CI CULATION at 1110 - regained in 2-3/4 hours. 1170 1210 DOLORITE: durk brown to black, dense to expressurese, alightly argillaceous, occasional contings of black, corbonecous, slickengided shale. 1210 1226 CORE NO. 2. Reservery 16 feet. DOLONITA: gray to gray-kross, medium erretalline. Datire core very heavily freetured. Freetures onen to martially-filled with calcite. Common slinkensided, earbonneeuss shale partings dipping 6-8". Limmite staining in fractures of lower portion of core. A 620 fault of unknown (reshably minor) displacement at 1218. No shows of gas or odle

SEC		TWP
FARM		ELEVATION
OWNER		
SAMPLES FE	юм 122	6
FROM	то	LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS
1226	1240	DOLONIE: as above interbodded with
		DOLORLITE LEGATORE: light brown, very dense, pyritic and black, cerbone-
		occus chalo partings.
1240	1290	DOLOGIA: gray and brown, coarse crystalline, alightly vitroous, alightly
		argillaceous, hard to brittle with occasional thin beds of
		DULLMITE: ten, fine sucrose, slightly silty.
1230	14,00	LIMETORIA interbodded dark brown, black and dark gray, dense, silty,
		becoming alightly lighter and micro-crystalline toward bottom. Heavily
		fractured. Fractures filled with white secondary crystalline calcite.
		Scattered slickensides throughout.
1400	1/430	DOLONITE: dori gray, course enystalline, slightly vitroous, hard, be-
	-	coming lighter in color toward bottom.
1430	1615	LDENTONE: thinly bodded varieological, lithographic, micro and medium
		orystalline, silty to sandy. Rere thin beds of
		DOLOMITE gray, fine crystalline, hard, slightly silty and black, shing,
		carbonaceous, celecreous, slickenoided shale cartings. Frontured as
		above.
<b>161</b> 5	1650	DOLOHITL: dark gray, micro-crystalline, slightly sucrose, hard, slightly
		silty.
1650	1730	LDANTORD: brown and gray, fine crystalline, silty, argillaceous, nottled,
•		frosty, pyritic, alightly dolomitic, occasionally alighensided.
1730	1285	SHALE: gray, silty, enloareous to limey, pyritic, slickensided with
		rere thin bods of
2,22,2		DOLOMITE: gray-brown, comrae crystalline.
1385	1954	SHALE: black, dense, earbonneeuma, pyritie, abundent sliekensides,
***		delouitie, becoming silty at bottom.
1954	1961	CORE NO. 3. Receivery 7 foot.
		SAMDY SHALEs dork broadsh-black, wary dense, wary hard, alightly
		delouitie, way paritie, with median-course grained sand, Intire sere
	+	wary heavily fractured. Common partially saleite-filled fractures and
		rogs. Abundant black, shiny, soft, earbonneous, sliebonsided shele partings and stylelites. No shows of one or ell-

YOURT from 2207 to 2211. Freetures rare from 2211 to 2229.

2215 - 8-100. No shows of gas or oil.

9 foot - SHALY LIMISTONES dark broamish-gray, dense, hard, very argillacome, slightly silty, increasingly sprittle. Bedding plane dips in core were as follows: 2180 - 18°; 2184 - 14°; 2187 - 10°; 2213 - 8-9°;

SEC		TWPRGELOCATION
FARM		NO ELEVATION
OWNER .		STATE COUNTY
SAMPLES FRO	ом. 2229	TO 2/10 EXAMINED BY DATE
FROM	то	LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS
22.29	<b>2</b> 235	CHAIN LIE TOHE and LIESTONE: as in above sore.
2235	2300	QUANTERIES white to smokey gray, denne, very slightly doloratic grading to
	- <del>-</del> 1	SHALLS gray, very silicaous, very hard, carbonnescus.
2300		SINCED TOP OF GUILLETTE (U. PET DINONIAN)
2300	2310	DOLGETT dark gray-brown, fine to madium erystalline, hard, alightly
	· · · · · · · · · · · · · · · · · · ·	vitavous.
2310	2320	CHALL: dark gray, sandy, very calcurcous.
2300	2340	DOLGHATH: as last above.
2340	2344	LERENOUS dark gray-brown, ailty to sandy, grading to chosolate brown,
	İ	lithographic.
2344	2365	CONT No. 6. Rosovery 21 feet.
	ĺ	10 feet - LIEMANE: gray-brown, micro-crystalline, sucrose, very silty,
		pyritis, becoming increasingly dense, slightly silty toward bottom.
	İ	Abundant block, soft, earbonnecous, sliekemeided shele partings.
	İ	3 feet - LEMSTONL: choselate brown, lithographic, brittle. Rare to
	•	common calcite-filled wigs.
		8 feet - DOLLARITH: dark brosnish-gray, mailum arystelling, hard, vitracus,
	1	Abundant calcite-filled to partially-filled wags. Intire core way
		heavily freetured. Freetures are unoriented, ranging from microscopic
		veinlets to 1" disaster and calcite-filled to partially-filled. Slight
		sour gas oder on fresh break. Very slight fluorescence in fructures.
	†	At 2362: Porosity 7.9% - Permeability mero.  At 2364: Porosity 10.1% - Permeability mero.
00/E		MICHITE: gray-brown becoming lighter, medium crystalline, hard, tight.
2365	2390	DOLLMITE: gray-droin becoming lighter, medical stylestrony land, muritie,
2390	2402	frosty.
2462	2/30	CORE NO. 7. Reservery 8 feet.
		DOLOMITIA dark gray, misro-srystalline, very hard, tight, slightly pyritie.
		Entire core very heavily fractured and econon vugs are partially-filled
		with calcite.
		At 2405: Percentry 7-15 - Permeability serve-
		At 2407: Perceity 6.35 - Permeability marca
		At 2409: Porosity 5.9% - Permeability mero.

SEC FARM ELEVATION\_\_ OWNER COUNTY 2665 SAMPLES FROM 2410 FROM то LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS 2375 2420 Deter of the Performan Test No. 1. Halliflurton Cil Well Comenting Co. formation testor evened at 2 P.M. on Percenter 3, 1951. 85" wall pecker run on 25" EUE tubing. Pauker set at 2305. Tested interval 2335 to 2410 in the lower fault plate of the upper Guillastte Formation. Ren 75 feet perforated anabor. Tool open 21 hours. Received fair blow immediately. Doed in 10 minutes. Symbold 2 hours recovering To berrels of fluid per hour of gray-green fresh water, then tubing pulled to recover tester, 1075 feet of elect. fresh inter was recovered. No shows. Hydrostatic pressure 1100 pel. Bottom Hole Pressure - 600 pai. Chlorides were as follows: Bishop Springs fresh veter: 5.4 grains per gallon. Drilling fluid: 5,8 grains per gallon. Sumbbod formation unter: 8.7 grains per gallon on each of the three sumples analyzed. 2410 2445 DOLOMITH; black, brown and gray, fine to medium crystalline, frosty, G.BTODO. 24.5 2495 LERENTONE: choselete brown and crown, micro-marcee, frosty, silty, bosoning durker, miltier and pessibly breedlated toward bottom. 2495 2525 DE GHITM dark gray, madium to coarse expetalline, witrooms, parties, streaks of black, carbonescus shale partines. 2525 2625 LDESTONE and DOLOHOTE LIMESTONE; dark brown and dark brown-gray, lithographic to micro-crystalline, brittle, silty, vitropus, carbonaccous, slickensided, occasionally interbedded with LDESTURE cross, soft, sucross and DOLUMITE: brown and gray, fine to medium sayutalline. 2625 2665 DOMMITT: chuoclate brown, medium crystalline, sucrose, porcelaneous, slightly modular becoming darker, fine erystelline, vitroous, tight toward bottom with rare beds of LEMENTORE: graylab-brown, dense to misro-crystalline, susrose, frosty.

SEC. RGE. FARM OWNER . 2665 3380 SAMPLES FROM FROM ΥO LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS 2665 DOLOMITIC LIBERTORE: dirty brown, micro-crystalline, sucrose and dark 2730 brown, silty interbedded with DOLGHTE: brown, medium crystalline and gray, fine crystalline, slig tly SUCTOBO. 2730 2755 DOLOMITE: light brown, coarse or stalline becoming dark gray, fine crystalline, sucrese. 2755 2910 LINGSTONE: light even-brown, dense to micro-crystalline, sucross, dolamitic, with rere beds of DOLCHITA: brown, fine to medium orystalline, 2910 2975 LIBERTONE; brown and gray, dense to fine crystalline, vitreous, porities surrose, delexitie, traces of colitie, some interbedding with DOT.OMITE: brown to dark gray, medium crystalline, pyritic. LDESTONE: dirty brown-gray, micro to medium crystalline, sucrose, 2975 3050 delomitie, noticed, seft, with eurbonescus aligheraides, 3050 3070 DOLOMITIC LIBERTONE: dark gray-brown, fine erystalline, bard. LDERTORD: interbuilded ereem, gray and brown, micro-crystalline, mottled, 3070 2170 vitreous, pyritis, sucrose, delomitis, becoming darker toward bettem. DOLUM TE: dark gray, fine crystalline grading to gray, medium crystalline, 3170 3200 paritie, grading to gray-brown, dense, paritie, slightly vitreous, LDESTONE: dark brown, lithographic, frosty, slickensided, delonitie, 3200 3230 grading to DOLOROTIC LIBERTORE: dark grey-brown, micro-crystalline. 3230 3245 SIMIE; dirty gray, dense, silty, very calcoreous, hard, brittle, LDESTONE: bronn, micro-crystalline, brittle, vitresus, surrose, 3245 3300 elishmetided, very heavily freetured with zero thin beds of shale as above. 3300 SHALE, dirty gray, dense, earthmoseums, very exherrence, hard, 3315 3335 3330 LDESTORE gray-green, hard, dense, silty to argillacous. 3330 3330 LDESTONES dark and light brown, lithographic, heavily freshard, ? Bressisted ?, very brittle grading to DULARITE LIMESTORE gray-green, dense, silty and LDESTORE: brown, medium crystalline, bearily fractured,

SEC		TWP RGELOCATION
FARM		NO
OWNER		STATECOUNTY
SAMPLES F	ROM.	TO EXAMINED BY DATE
FROM	то	LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS
3360	3391	DOLCHUTES gray, dense to misre-crystalline and
• •		SAMDSTONE; gray, very fine to fine grain, macreed, very calcareous.
3391	3413	
		4 feet - EHALE; gray, dense, silty, very enleavence, Slippage plane
		with dip of 30°. Pessible bedding plane.
		3 feet - LDESTONE; gray to gray-kroum, dense, slightly silty with
		veins of QUARTERY SAMDSTONES fine to course grain, unsurted and
		SAMDETONE: clear quarte grains as above with limestone commis-
		Slippen plane dipping 30°. Pensible building plane.
		6 feet - LIMESTORE; gray to gray-brown, damps, slightly silty, Slippage
		plane dipping 30°. Possible bedding plane,
		4 feet - LDESTONE: dark brown to gray-brown, micro to fine crystalline,
		vitreous. Fault - dip 50°.
		5 fost - LIRECTONE: dark and light gray, dones to micro-crystalline,
		increasingly vitreous to bottom, slightly delouitie. Three faults dipping 65°, 50° and 55° with minor drag falds.
		Entire core is shot-through with unoriented calcite-filled fractures
		Anthing them this Asymptote to \$2 grammer and minimizer to transfer
į		shely slightensides. He shows of gas or ofle
3413	3640	LEGSTONE: brown and gray, lithographic to micro-crystalline, sugress,
ļ		vitrous, pyritis, silty, becoming increasinly shaly and new heavily
į		Crustured toward bethom.
3640	3650	LDESTONES blackish-green, dense, argillaceous,
3650	3660	LDESTONE: dirty erom-brown, micro-crystalline, calibie, mottled,
3660	3675	LDESTORS: very complex breesia or re-warked limestone as above, very
	÷ .	heavily fresturele
		REVIRGE FAULT AT APPROXIMATELY 3675.
		Tibon - 1060 Fer.
	····	BILLIO WER CHILLETTS.
	• • • • • • • • • •	

GULF T-1161	PRINTED IN U.S	PAGE NO
SEC		WP. RGE. LOCATION
FARM	esis.	NO ELEVATION
1 A(M		
OWNER		STATE COUNTY
CAMBI EC ED	ou <b>367</b> 5	TO 3945 EXAMINED BY DATE
1		
FROM	то	LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS
3675	3733	DOLOGITE: brown and gray, medium exystalline, vitrome, argilla comes
		grading to fine crystalline teamed bottom, consciously interhedded with
]		DOLOMITHE LIMESTONE: dark brown to gray, dense to micro-crystalline,
	**	very shaly and silty.
3733	3753	CORE NO. 9. Recovery 20 feet.
	2.22	DOLONITIC LINESTONE: dark brown to dark gray-brown, fine crystalline,
1		
ļ		slightly shely, hard and
		DOLOMNE: brown to brown-gray, medium expetalline with inter-grander
ļ		calcite exystals.
		Entire core is very heavily freetured. Freetures are uncriented and
· -		calcite-Cilled to partially-Cilled with drilling and contemination
ļ		throughout. Estimated 30% of core by volume is secondary calcide. Due
		to the complete shot-through nature of the fractures, the core is very
		erumbly and shattered. Although no necurate bedding dips were obtained,
		stylolites and questionable bedding partings suggest dips of less than
		200. Throughout core are unoriented black, shirt, sarboneseeus shale
		partings that are highly slickensided. This breesis some at bottom of
r	- '	para emposed of delocation limestone and delocate comented with maleites
3753	3820	DOLONITE: brown and gray, medium crystalline, vitroous, argillascous
		grading to fine erystalline toward bottom, escasionally interhedded with
	ĺ	DOLOHITIC LIMESTONE: dark brown to gray, dense to micro-crystalline,
		very shaly and silty.
3620	3920	LIMESTOREs dark brown and gray, lithographic to micro-crystalline, slightly
*	[	delouitie, mettled, surrose, vitreous, slightly shely.
3920	3945	LIMESTONE: brown to dark brown, micro-crystalline, vitrome.
3945	3959	CORE NO. 10. Resovery 14 feet.
		8 foot - LDGETOREs dark brown to brown-gray, micro-crystalline, slightly
		pyritie, embedded, tiny, caleite erystals, unordented, microscopie to
	1	tiny, calcite-Cilled vehilete, contested stylolites up to 1/8 dismeter
		• • • • • • • • • • • • • • • • • • • •
		Cilled with black, coleanous, curbonnesses shale, moderately to heavily
		Creatured, may of the Emstures are lending, secondary fractures are
		commun, Ernstwee are filled to partially filled with calcite and may
		nee contraducted with deliting Civile, vago are common and may are
i	1	

SEC		TWPRGELOCATION
FARM		NOELEVATION
OWNER		STATE COUNTY
SAMPLES F	ROM. 39	45 TO LEXAMINED BY DATE
FROM	то	LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS
		Core No. 10 - cont'd.
		contaminated with drilling fluid, vugs are common and many are contorted
		and filled with calcite or a black, earbonaceous material. Bottem foot
		has fault with dip of 60°. Very heavily fractured.
		3 feet - BRECCIA: limestone as above and
		LIMETOKE: green-brown to buff, migro-grystalline, re-worked.
		Breccia camented with calcite. Fault through breccia with dip of 60°.
		3 feet - LDFETOM: dark brown to brown-gray, micro-crystalline, slightly
•		dolomitic. Fault, possibly along bedding plane, with dip of 350. Some
		fractures filled with black, calcareous, carbonaseous shale. Some limey
		dolomite appearing in veins and blotches. No shows of gas or eil.
3959	4050	LIMESTONE: cream to buff, dense, slightly mottled and dark brown, micro-
		crystalline, vitreous,
4050	4075	LIMITOME: as above, slightly lighter in color and delomitie.
4075	4105	DOLOMITE: brown-gray, fine grystalline grading to medium crystalline,
ļ		vitreous,
4105	4114	LDESTONE: dark gray, dense, shaly, carbonaceous, abundant slickensides,
		very heavily fractured.
4114	4149	CORE NO. 11. Recovery 35 feet.
		BRECCIA: composed of limestones and delemites - predominantly limestones.
		Great variation of colors, crystallimities, accessory minerals and
]		textures. Breecis fragments angular to sub-angular - no alignment -
		all sizes - commuted with calcite. Abundant open to partially-filled to
		calcite-filled fractures and veinlets which are within and through
ļ	į	brescia fragments. Black, carbonascous, slickensided planes are common
		within and between breesia. Very faint and spotty odor of sour sulphur
		gas throughout eare. No finoressense, no stain.
4749	4176	CORE NO. 12. Receiving 25 feet.
+		MERICIA: as above Core. Bressis fragments angular, predominantly less
		them F dismeter, and shot-through with colsite-filled voinlets and
		Constance. Lever 13 feet badly shattered and enumbled, Scattered,
		uncriculed black, exphanaseous, enlesseems, aliabunaided shale partings
-		throughout. Yeary faint, very spotty oder of sour sulphur gas.
	J	No finoressense, no stain.

RM		NOELEVATION
/NER		STATECOUNTY
MPLES F	ROM 417	
FROM	то	DATE
4176	4200	HELOCIA: AS Above cores.
4200	4250	The state of the s
- <del></del>		LDENTORE: brown-gray, lithographic to micro-crystalline, brittle, shall pyritic, sucross.
4250	4270	
بحرسه	- <b>46</b> -19.	SHALE; black, dense, platy, delocatic and minor emounts of
4270	4330	LIPERTONE: gray-green, dense, shaly.
-42-70	پوريه.	LEGROUE: light and dark gray-browns, lithographic to micro-crystallin
		sucrose, pyritic, with minor amounts of
4330	4305	LDEDTONI crosm, postery, soft, dense.
الربيد	ربي	SIMI's black, very dense, delemitic, pyritic, aliebensided, slightly
·		siliceous becoming increasingly fisale toward bottom, interbolded with
		LINE TORIE: dark brown-gray, lithographic to micro-crystalline, pyritic,
		very shaly, mottled, grading to
		LI STITUTE areas, dense, shaly, brittle, very heavily freetured, absolu
	4 200 20	secondary celeite.
522	4365	SCHLUPERGER ELECTRIC LOG - RUM NO. 1.
4365	4330	CORE NO. 13. Recovery 15 feet.
		1 foot - LDESTORIE gray-gross, lithographic to micro-cryptalline, briti
		pyritic, heavily fractured.
		1 foot - SHALY LIBESTOILS dark gray, dense, pyritic, platy, moderately
		fractured, poor dip checks: 15-200.
		1 feet - LDESTONE: light grey, micro-crystalline, vitreous, pyritis, pr
-		moderately frestured. Fault dipping 45°. Change in lithology to:
		2 feet - LIMENTONES eresm-brown, medium orystalline, slightly delocatio,
-		pyritie, grading to light gray to gray, micro-crystalline, vitrous,
		pyritio, grading to gray-brown, lithographic, platy, chaly, pyritis
		with thin shale partings. Dip cheeks of 8-100.
	ļ	2 fost - LDESTONE: light gray, micro-crystalline, pyritic, siliconus,
		becoming instructingly vuggy and grading to
		SAMETORE: light makey gray, fine grain, espected with lime, slightly
		quertaitie, peritie.
		1 foot - Liber Shales gray, dense, siliences, pyritie.

SEC		TWPRGELOCATION
FARM		NOELEVATION
OWNER		STATECOUNTY
SAMPLES FF	ROM.	55 TO 4775 EXAMINED BY DATE
FROM	то	LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS
<del></del>		Core No. 13 - contid.
		2 feet - SHALE: gray, dones, gyritis, slightly delocitic, slightly
		fissle, moderately fractured. Dip 8-100.
		1 feet - SHALM black, very dense, splintery, finale, carbonaseous,
		pyritie. Bedding plane dipe: 200. Possible minor faults dipping
		7º and 45°.
•		2 feet - LDEETONE: light gray becoming dark gray, lithographic, brittle.
		vitreous, flaker, pyritis, moderately to heavily fractured, thin-
•		bodded, opposional stylelites and sliebensides conted with carbonaceus
		ahsle.
-		2 feet - SHALE: dark gray-brown, frosty, hard, calcareous, pyritie,
		abundant stylolites, molerately fractured, Diper 100, Slight spetty
		oder of sour mas. No shows of edla
4330	4390	LDESTONE: dark grey-brown, micro-crystalline, mottled, alightly marces.
4390	4505	LDG: TONE; light bluish-gray, micro-cryotalline, posselaneous, shaly,
4505	4610	LIME TONE; black grading to gray and gray-brown, micro-crystalline, silty,
		shaly, pyritic, slightly curbousseous with rure thin beds of
		SHALEs black, dense, enrhoneceus, calcarecus,
4630	4635	LDESTONE: brown and gray, lithographic, brittle, hard.
4635	4645	CORE NO. 1/4 Recovery 10 feets
		LDESTONE: dark gray, dence, shaly, very carbonaccous, grading quickly to
		LIBERTONES brown-gray, miero-crystalline to dense, vitreous, alightly
	-	posselaneous, pyritis, slightly shaly, earhomaceus, Core completely
		shot-through with secondary crystalline calcite-filled frectures,
		Some evidence of breceistism. Abundant elichensides. Bottom foot
		has drag falds and a slickensided fault dipping 350.
		Faint spotty oder of sour gas. He shows of oil.
4645	4690	LIMENTONE: gary to gary-bruse, wiero-exystalline, pyritic, vitreous.
4690	4740	LINESTORISE dark grays-brown, lithographic, profile, elightly earbonnessus,
		grading at batter to
		Libertone black, earbonneous, splintery, shaly,
4740	4775	LDESTONE: heren, micro-prystalline, viterens, percelancous, sucrose,
	å	freely, abundant existing

SEC		TWPRGELOCATION
FARM		NOELEVATION
OWNER		STATE COUNTY
SAMPLES F	гом4	TOEXAMINED BY
FROM	то	LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS
4775	4705	LDECTORE: as above, abundant calcite. Truce buff, sandy, calcitis
4785	4790	LOST CIRCULATION - NO RETURNS - CHESTED THREE TIMES. Regarded 3-1/2 days
4790	4340	LDESTORE: gray and brown, misro-crystalline, murose, frosty interbedded
. ,	•	rerely with beds of
	l	DOLGATE: dark gray, fine enystalline, vitregus,
4340	4970	LIMENTONE: cream-brown and brown, micro-crystalline, vitreous, glightly
		porcelaneous, alightly dolouitie, were shaly monos toward bottem.
4970	4937	LDESTONE: dark gray, micro-crystalline, vitueous and light gray, fine
		crystalline, dolomitie.
4987	5000	CORE NO. 15. Reservery 13 feets
		LIMESTONE: gray-bruse and eross-gray-bruse, miero-mystalline, vitrame,
		poroclameous, brittle, flaker, Moderately frestured. Brescieted in
		part. Suggestive dips of 150. No shows of gas or oil.
5000	5200	LDESTORE: erem-brown, smokey gray and brown, micro-crystalline, pure,
		survey, vitreous, percelaneous, becoming slightly earbonneous and
		shally at bottom.
5200	5260	DELCHATE LEGISTORES gray grading to green-brance, micro-crystalline, way
		delamitie, vitreeus, perseleneous,
5260	5268	LDESTONE and DOLONTED LDESTONE, wary thin-badded, or some of manner
		foundty, sendy in purte
5268		TOP SINOWOOD DOCCOUTS.
5268	5380	DOLOGUE dark breen to light brown to dark grayish-brown to black,
		miero to fine erystelline, vitrome, peredismenus, exchangements to slightly
-		ergillacema.
5380	5395	DOLOGIEs desk gray-brown, medium erystalline, alightly earhonecesus to
		shaly.
<b>6304</b>	543.5	LOST SOSE INITIADE NO CAME 5390 to 5400.
5395 5435	54.50	LIBERTONIES deark graylab-broom, missro-oxystelline, partitle, slightly silty.
	2230	DOLOGOTE: benealth-grown, melber exystelline, viterens, exchangeous, alightly alloys

₹М		NO. ELEVATION
NER		STATE COUNTY
	549	A000
FROM	TO	LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS
5450	5541	
34,50	) JAT	DOLONITE: dark gray, micro to fine crystalline, vitreous, percelaneous with rare thin beds
		DOLOMITE: light brown, medium crystalline, vitroous and
		T.TIESTONE 14 she among house 144ha manda
5541		SCHLINGURGER KLECTRIC LOG - RUE NO. 2.
/~~		SCHLUMBERGER DIP METER - RUN NO. 1.
		LAME WELLS RADIO ACTIVE LOG - RUN NO. 1.
5541	5550	CORE NO. 16. Recovery 9 feet.
	.2224	DOLONITE: erem-brown grading to gray-brown, micro to fine erystalline.
- t	<b>-</b>	persolaneous, hard, vitroous, Abundant Creetures seated with a film
· · · · · · · · · · · · · · · · · · ·		of calcite, Dips - 10°, Perceity - 4,3%; permeability sero, Slight
		spotty edor of sour ms. He shows of eil.
5550	5560	DOLOMBER of shows come
5560	5570	DOLOMITIC LIMESTONE and LIMESTONE: gray, miaro-crystalline, marone,
		argillaccous,
5570	5610	DOLONITE: dark grayish-brown grading to light chocolate brown, medium
		erystalline, vitresus, sucrose.
5610	5630	DOLGROTE: light shocelate brown to smekey gray, micro to fine erystellin
		vitreous, hard,
5630	5660	DOLOMITE: gray-brown, fine to medium grystalline, vitreous, persolaneous
5660	5690	DOLOMITE: light smelter gray, micro to fine crystalline, slightly vitroom
5690	5700	DOLOMITE: grayich-brown, medium to course crystalline, vitroous, perco-
		lancoue.
5700	5760	DOLOGIE: breen and ereen-breen, miere to fine erretalling, vitrocus,
		percelaneous, slightly sucress.
5760	5820	DOLONGER: gray to eream, coarse exystalline, vitrocus, percelaneous.
5820	5835	DOLCHITE: bluish-enokey gray, micro-crystalline, vitrosus, perceleneous,
5835	5865	DOLCHITTE: ereem, course crystalline, percelaneous, hard.
5865	6000	DOLOMITE: eream-brown, very searce esystalline, vitreous, percelaments,
		with zero thin bods of
	<u>_</u>	DOLONITE: miese-crystelline, very pesselenesse.

PLES FROM 6000 TO 6525 EXAMINED BY COUNTY  TO LITHOLOGIC DESCRIPTION, FORMATION AND MEMARIAS  6000 TOP SETY DOLORITE, 6000 GOLD DOLORITE; green-brown, lithographie to micro-crystalline, vitrooms, per- eclaneous, interbedded with 6AUDSTONE; grey and creen-brown, lithographie, vitrooms, per- eclaneous, interbedded with 6AUDSTONE; grey and creen-brown, lithographie, vitrooms, per- eclaneous, interbedded with 6AUDSTONE; greys and brown, medium grain, completely ellicified, 6020 6030 0000 DOLORITE; green and brown, medium to eccarse crystalline, hard, interbedd with miner bods of  DOLORITE; light brown, micro-crystalline, percelaneous, inter- bedded with 6AUDSTONE; hrown, lithographie to micro-crystalline, percelaneous, inter- hadded with 6AUDSTONE; brown-gray, micro-crystalline, vityrous, doloritie, 6090 6290 DOLORITE; light creem-brown and eccanional memory gray, lithographie to miner thin bods of 1.DOSTONE; brown-gray, micro-crystalline, vityrous, doloritie, 6090 6290 DOLORITE; light errom-brown and eccanional memory gray, lithographie to micro-crystalline, vityrous, sury percelaneous, alightly marroes with 6290 6395 DOLORITE; mobey gray, grayinh-brown and green-brown, micro-crystalline 6290 6395 DOLORITE; mobey gray, grayinh-brown and green-brown, micro-crystalline 6290 6295 DOLORITE; mobey gray, percelaneous, 6290 6295 DOLORITE; mobey gray, hacoming darker at bettem. 6290 6295 LI/2 foot - DOLORITE; mobey gray, wiere-crystalline, percelaneous, 6290 6295 GORE ED. 17, Receivery 10 foots. 6290 6295 LI/2 foot - DOLORITE; mobey gray, wiere-crystalline, percelaneous, 6290 6295 GORE ED. 17, Receivery 10 foots. 6290 6290 LI/2 foot - DOLORITE; mobey gray, micro-crystalline, percelaneous, 6290 6290 GORE ED. 17, Receivery 10 foots. 6290 6290 LI/2 foot - DOLORITE; mobey gray, micro-crystalline, percelaneous, 6290 6290 GORE ED. 17, Receivery 10 foots. 6290 6290 LI/2 foot - DOLORITE; mobey gray, micro-crystalline, percelaneous, 6290 6290 GORE ED. 17, Receivery 10 foots. 6290 6290 GORE ED. 17, Receivery 10 foots. 6290 6290 629			NOELEVATION
TOP SETY DOLONTE,  LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS  TOP SETY DOLONTE,  6000 6010 BOLONTE; erress-bross, lithegraphic to micro-crystalline, vitreous, pre- calaneous, interbedded with  SARDSTONE; mokey gray, medium grain, generally vell-rounded, dolontide, 6010 6025 DOLONTE; gray and erress-bross, lithegraphic, vitreous, percalaneous, 6025 6030 QUARTZITE; colorless, medium grain, completely silicified, 6030 6030 DOLONTE; gray and bross, medium to compact crystalline, hard, interbedd  with miner beds of  DOLONTE; light bross, micro-crystalline, percalaneous, inter- badded with  SARDSTONE and QUARTZITE; makey gray, source grain, vall-rounded and  miner thin beds of  LDESTONE; bross-gray, micro-crystalline, vitreous, dolontide,  BULONTE; light cross-bross and conscional member gray, lithographic to  micro-crystalline, vitreous, very percalaneous, alightly sucrees with  conspicual block, carbonneous, alightmented shale parting.  LOST SONE BRILLIDS MED at 6200,  6390 6395 DOLONTE; mokey gray, grayish-bross and erress-bross, micro-crystalline  ribresse, sucrees, freety, becoming darker at bettem.  6295 6535 GORE ED. 17. Receivery 10 feets.  1 1/2 feet - DOLONTE; mokey gray, micro-crystalline, percalaneous,  plightly vitreous, hards. Brossia of time crystalline, percalaneous,  glightly vitreous, hards. Brossia of time crystalline, percalaneous,  freetures control with calastics. Abusinest conterted, very soft, curbon  second shale weignes. Bross weilline, conterted veglets.  1 1/2 feet - BOLONTE; desk gray, fine crystalline, vitreous, alightly	· · · · · · · · · · · · · · · · · · ·		
TO SETY DOLONTE,  TOP SETY DOLONTE,  DOLONTE; errenteren, lithegraphic to micro-crystalline, vitrous, per- calancess, intertedded with  SARDSTONE; emokey gray, medium grain, generally vell-rounded, delonities,  6010 6025 DOLONTE; gray and errent-brown, lithegraphic, vitrouse, percalancess,  6025 6030 QUARTETE; selectors, medium grain, completely silicified,  6030 6050 DOLONTE; green and brown, medium to completely silicified,  6050 6050 DOLONTE; light brown, micro-crystalline, percalancess,  6050 6090 DOLONTE; light brown, micro-crystalline, percalancess,  6050 6090 DOLONTE; light brown, micro-crystalline, percalancess,  6050 6090 DOLONTE; light prom-gray, micro-crystalline, vitrouse, delonitie,  6050 6090 DOLONTE; light cross-brown and cocarional suckey gray, lithographic to  6050 6090 BOLONTE; light cross-brown and cocarional suckey gray, lithographic to  6050 6090 BOLONTE; light cross-brown and cocarional suckey gray, lithographic to  6050 6090 DOLONTE; light cross-brown and cocarional suckey gray, lithographic to  6050 6090 BOLONTE; light cross-brown, very percalancess, slightly sucross with  6050 6090 BOLONTE; suckey gray, grayish-brown and grass-brown, micro-crystalline,  6090 6095 DOLONTE; suckey gray, grayish-brown and grass-brown, micro-crystalline,  6095 6095 DOLONTE; brown and grass-brown, micro to fine crystalline, percelancess,  6095 6095 DOLONTE; brown and grass-brown, micro to fine crystalline, percelancess,  6095 6095 CORE NO. 17, Receivery 10 footh,  1 1/2 foot - DOLONTE; suckey gray, micro-crystalline, percelancess,  616thly vitrouse, brown and grass-brown of tipy angular to sub-crystalline,  6276 6095 CORE NO. 17, Receivery 10 footh,  6277 CORE NO. 17, Receivery 10 footh,  6278 6095 CORE NO. 17, Receivery 10 footh,  6279 CORE NO. 17, Receivery 10 footh,  6270 CORE NO. 17, Receivery 10 footh,  6270 CORE NO. 17, Receivery 10 footh,  6271 Core completely shoutered. Probably fruit grays, Abundant high angular  6272 Core completely shoutered. Probably fruit grays, all provided and  6275 Core compl	ER		STATE COUNTY
TOP SETY DOLORITE,  DOLORITE; erren-brown, lithegraphic to micro-crystalline, vitreous, pre- calancous, interbedded with  EARDSTORE; enokey gray, medium grain, generally vell-counsed, delocation,  6020 6020 DOLORITE; gray and erren-brown, lithegraphic, vitreous, percalancous,  6020 6030 DOLORITE; erren and brown, medium to completely silicified,  6030 6030 DOLORITE; brown, micro-crystalline, percalancous,  6040 MATERITE; brown, micro-crystalline, percalancous,  6050 MATERITE; brown, lithegraphic to micro-crystalline, percalancous, inter-  6050 MATERITE; brown-gray, micro-crystalline, vitreous, delocation,  miner thin beds of  LDESTORE; brown-gray, micro-crystalline, vitreous, delocation,  miner thin beds of  LDESTORE; light erren-brown and cocasional medacy gray, lithegraphic to  micro-crystalline, vitreous, very percalancous, slightly sucress with  cocasional black, carbourgeous, slightmedded shale parting,  LOST SORE RELIAM MED at 6286,  1057 SORE RELIAM MED at 6286,  DOLORITE; brown and cream-brown and grass-brown, micro-crystalline,  percalancous, vitreous, result, privide, secretary  vitreous, macroon, fracty, becoming darker at bottom.  6925 6255 GORE EO, 17. Recovery 10 foots,  L 1/2 foot - DOLORITE; muskey gray, micro-crystalline, percalancous,  glightly vitreous, havis, Broosin of tiny angular to eschedary calline,  fore completely shortward. Probably four grays of the curbon  account shale velges. Rare untilled, contexted veglets,  L 1/2 foot - BOLORITE; dark gray, fine crystalline, vitreous, clightly	LES FR	<sub>M</sub> 600	TO 6525 EXAMINED BY DATE
6010 BOLORITE: eress-brown, lithographic to micro-crystalline, vitreous, per- eslancous, intertected with  EARDSTORE: smokey gray, medium grain, generally vell-counted, delocation, 6025 6030 DOLORITE: gray and eress-brown, lithographic, vitreous, percelancous, 6026 6030 QUARTZITE: colorloss, medium grain, completely silicified, 6030 6030 DOLORITE: eress and brown, medium to coarse crystalline, hard, intertect with miner bade of  DOLORITE: layer brown, micro-crystalline, percelancous, inter- bedded with  SAMSTORE and QUARTZITE: smokey gray, coarse grain, vell-rounded and miner thin bade of  LDESTORE: brown-gray, micro-crystalline, vitycous, delocaties, 6030 6230 BOLORITE: light eress-brown and cocasional smokey gray, lithographic to micro-crystalline, vitreous, very percelancous, slightly merces with econsismal black, carbourgeous, slightmedded shale parting, LOST SONE BRILLING MED at 6286. 6250 6252 BOLORITE: smokey gray, grayish-brown and eress-brown, micro-crystalline percelancous, vitreous, rurely syritis, mercess. 6253 6535 CORE ED. 17. Receivery 10 foots, 1 1/2 foot - DOLORITE; smokey gray, micro-crystalline, percelancous, slightly vitreous, hard, Brooking darker at bottom. 6252 6535 CORE ED. 17. Receivery 10 foots, 1 1/2 foot - DOLORITE; smokey gray, micro-crystalline, percelancous, surgicated fragments commited with white granular to sectionary calcius, Gere completely shuttered, Probably foots grayes, Aluminat high angl. fractures conted with calcius, Aluminat contexted, very soft, carbon accous shale verigers. Bore untilled, contexted veglets, 1 1/2 foot - DOLORITE; dark gray, fine crystalline, vitreous, alightly	ROM	то	LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS
eclaneous, interbedded with  SAMDSTONE; suckey gray, medium grain, generally vell-rounded, dolomities, 6025 6030 GUARTZETE; selectors, medium grain, completely silicified, 6030 6030 BOLGETE; errem and brown, medium to convex crystalline, hard, interbedd with miner beds of  BOLGETE; light brown, micro-crystalline, percelaneous, 6030 6030 DOLGETE; brown, lithographic to micro-crystalline, percelaneous, inter- bedded with  SAMDSTONE and GUARTZETE; maskey gray, coarse grain, well-rounded and miner thin beds of  LDESTONE; brown-gray, micro-crystalline, vityrous, dolomitie,  BOLGETE; light cross-brown and occasional meshey gray, lithographic to micro-crystalline, vityrous, very percelaneous, slightly sucress with generated block, carbounceous, slightmedded shale parting.  LOST SONE BELLIUM MED at 6200.  6250 6252 DECONITE; mokey gray, grayish-brown and gross-brown, micro-crystalline percelaneous, vityrous, rurely pyritie, sucress.  6253 6525 DECONITE; mokey gray, grayish-brown and gross-brown, micro-crystalline, percelaneous, vityrous, rurely pyritie, sucress.  6254 6525 DECONITE; mokey gray, share-crystalline, percelaneous, glightly vityrous, hards gray, micro-crystalline, porcelaneous, glightly vityrous, hards Brossing of tiny angular to sub-campular, uncrinted fragments commined with white grammlar secondary calcite, Gere completely shattered. Probably fault grays. Abundant high angl. fractures canted with calcite. Abundant conterted, very soft, carbon secons shale veignes. Rere unfilled, conterted veglets.  1 1/2 fact = DECONITE; deck gray, fine crystalline, vitrouse, alightly	5000		TOP SEVY DOLONGTE,
SAMSTORIS: smokey gray, medium grain, generally vell-resumded, dolomitics, 5000 6025 DOLOMITE: gray and eream-brown, lithographic, vitreous, percalaments, 6025 6030 QUARTETE; colorless, medium to coarse crystalline, hard, interbeds with miner bods of DOLOMITE; light brown, miner-crystalline, percalaments, interbeds with miner bods of DOLOMITE; light brown, miner-crystalline, percalaments, interbeds with SAMSTORE and QUARTETE; smokey gray, scarse grain, well-rounded and miner thin bods of LDESTORE; hyper-gray, miner-crystalline, vitreous, dolomitis, 6090 6290 DOLOMITE; light cross-brown and coemsional smokey gray, lithographic to miner-crystalline, vitreous, very percalaments, slightly sources with especiantal block, carbonassess, slightmented shale parting.  LOST SOME BUILDE HUD at 6226, 6290 6295 DOLOMITE; smokey gray, grayish-brown and eream-brown, micro-crystalline percalaments, vitreous, varely pyritie, sources. 6290 6295 DOLOMITE; smokey gray, grayish-brown and eream-brown, micro-crystalline percalaments, vitreous, varely pyritie, sources. 6295 6225 DOLOMITE; smokey gray, miner-crystalline, percalaments vitreous, surross, fracty, becoming darker at bettem. 6296 6297 6298 DOLOMITE; smokey gray, miner-crystalline, percalaments, glightly vitreous, bards. Received of tiny angular to sub-angular, uncrimated fragments consisted with white granular secondary calcite, Gere completely shattered. Probably fault george, Abundant high angular receives shale veliges. Eare unfilled, contexted veglets.  1 1/2 fact = DOLOMITE; deak gray, fine erystalline, vitreous, slightly	5000	6010	BOLCHUTE: eream-brown, lithographic to micro-crystalline, vitroous, per
6025 DOLORITE: gray and erass-brown, lithagraphic, vitreous, percelaneous, 6025 6030 QUESTITE; colorloss, mains grain, completely silicified, 6030 6050 DOLORITE; cream and brown, medium to coarse crystalline, hard, interbeds with miner bode of DOLORITE; light brown, micro-crystalline, percelaneous, 6050 6090 DOLORITE; brown, lithagraphic to micro-crystalline, percelaneous, inter- badded with SAMDSTONE and QUARTZITE; seekey gray, coarse grain, well-rounded and miner thin bods of LDGESTONE; brown-gray, micro-crystalline, vityroous, dalonitie, 6090 6290 DOLORITE; light erroun-brown and occasional muskey gray, lithographic to micro-crystalline, vityroous, very percelaneous, slightly secrece with geographical black, carboungeous, slightwesided shale parting.  LOST SONE BRILLIDD MED at 6200.  6290 6395 DOLORITE; seekey gray, grayish-brown and secon-brown, micro-crystalline percelaneous, vityroous, rurely pyritis, secrece.  6225 GOLORITE; brown successive, heacening darker at bettern.  6225 6325 DOLORITE; brown successive, heacening darker at bettern.  6226 6335 GOLORITE; brown successively, heacening darker at bettern.  6227 6336 GOLE ED. 17. Recovery 10 foots.  1 1/2 foot - DOLORITE; suckey gray, micro-crystalline, percelaneous, glightly vityrouse, hards. Browning darker at bettern.  6226 completely shottered. Frobably fault grays. Abundant high angle frequence content with saleste. Abundant contented, very soft, curbon account shale veigne. Bare weilline, contented veglete.  1 1/2 foot - DOLORITE; dark gray, fine crystalline, vityrous, alightly			celaneous, interbedded with
6030 GOO QUARTETE; esterious, mains grain, completely silicified. 6030 GOO DOLOGIE; erean and brown, medium to completely silicified. 6030 GOO DOLOGIE; erean and brown, medium to compositely stated with miner bade of  DOLOGIE; light brown, micro-crystalline, percolaneous, inter- 6050 GOO DOLOGIE; brown, lithographic to micro-crystalline, percolaneous, inter- badded with  SAMESTORE and QUARTETE; suckey gray, course grain, well-rounded and miner thin bods of  LDGESTORE; brown-gray, micro-crystalline, vitycous, dologitis.  6090 GOO DOLOGIE; light erean-brown and consistent makey gray, lithographic to micro-crystalline, vitycous, very percolaneous, slightly sucress with geographes black, carboungeous, slightmedded shale parting.  LOST SORE IRILLIED MED at 6286.  6395 GOO DOLOGIE; suckey gray, grayish-brown and grown-brown, micro-crystalline percolaneous, vitycous, varely pyritie, marroes.  6395 GOO DOLOGIE; brown and grams-brown, micro-crystalline, percolaneous vitycous, marroes, fronty, becoming darker at betten.  6395 GOO DOLOGIE; brown and grams-brown, micro-crystalline, percolaneous, glightly vitycous, hards. Brooks of timy angular to sub-capalar, wasciented fragments commented with white grammler consensory calcite.  6390 GOO GOO DOLOGIES dark gray, fine crystalline, vitycous, slightly fructures conted with calcite. Abusiant contexted, very soft, curbon accous shale weigne. Bare untilled, contexted veglets.  1 1/2 foot - DOLOGIES dark gray, fine crystalline, vitycous, slightly			SANDSTONE: smokey gray, medium grain, generally well-rounded, delouitie
6030 6030 DOLORITE; green and hreen, medium to searce expetalline, hard, interbeds with miner bods of DOLORITE; light brown, minro-expetalline, percelaments, 6030 6090 DOLORITE; brown, lithographic to minro-expetalline, percelaments, inter- bedded with SANDSTORE and QUARTERIE; suckey gray, course grain, well-rounded and miner thin bods of LUMESTORE; brown-gray, minro-expetalline, viterous, doloritie, 6090 6290 DOLORITE; light excensives and constional member gray, lithographic to minro-expetalline, viterous, very percelaments, slightly sources with escapional black, carbouncesse, alightmended shale parting, LOST SONE DELLILUS MED at 6286, 6295 DOLORITE; suckey gray, grayish-brown and sreem-brown, minro-expetalline percelaments, viterous, revely pyritie, sources. 6295 6225 DOLORITE; brown and ercom-brown, minro to fine expetalline, percelament viterous, marroes, fractly, bacoming darker at bettem. 6225 6225 CORE ED, 17. Recovery 10 feet. 1 1/2 feet - DOLORITE; suckey gray, minro-expetalline, percelaments, glightly viterous, hards Breezia of tiny angular to sub-engular, wastiented fragments committed with white gramler secondary calcite, Gare completely shattered. Probably feets grayes. Abundant high angl. fractures coated with ealsite. Abundant contexted, very soft, curbon access shale weigne. Ears untilled, contexted weglets, 1 1/2 feet - DOLORITE; dark graye fine crystalline, vitroons, alightly	saso	6025	DOLCHITE: grey and erean-brown, lithographic, vitreous, percelaneous.
with miner bods of  DOLONITE: light brown, micro-crystalline, percolaments, inter- bodded with  SAMSTONE and GUARTETE: seakey gray, coarse grain, vall-rounded and  miner thin bods of  LDGSTONE: brown-gray, micro-crystalline, vitycoms, dolonitie,  DOLONITE: light cross-brown and occasional member gray, lithographic to  micro-crystalline, vitrous, very percolaments, alightly secrees with  escapional black, carbouncesse, alichemided shale parting,  LOST SONE DELLIES MED at \$250.  DOLONITE: suckey gray, grayish-brown and eross-brown, micro-crystalline  percolaments, vitrouss, rearly pyritie, members,  fine crystalline, percolament  vitrouss, marrose, fronty, becoming darker at betters.  6325 6335 GORE ED, 17. Recovery 10 foots.  1 1/2 feet - DOLONITE: suckey gray, micro-crystalline, percolaments,  plightly vitrouss, hard. Breezia of tiny angular to sub-cappilar,  warriested fragments consuled with white granular secondary calcitee,  Gare completely shattered. Probably foult gauge. Abundant high angl- freetures coated with solution. Abundant conterted, very soft, ourbon  access shale weignes. Bare unfilled, canterted veglets,  1 1/2 feet - DOLONIE: dark gray, fine crystalline, vitrouse, alightly	6025	6030	QUARTZITE; colorless, medium grain, completely silicified.
with miner bods of  DOLONITE: light brown, micro-crystalline, percolamona, inter- 6050 6690 DOLONITE: beams, lithographic to micro-crystalline, percolamona, inter- badded with  SAMOSTONE and QUARTETE: seekey gray, coarse grain, well-rounded and miner thin bods of  LDUSTONE; brown-gray, micro-crystalline, vitycoms, dolonitie,  BOLONITE: light cross-brown and occasional member gray, lithographic to micro-crystalline, vitrous, very percolamona, slightly secrece with escapional block, carbourgous, alichemoided shale parting,  LOST SONG HRILLID MID at \$200.  6395 DOLONITE: seekey gray, grayish-brown and escan-brown, micro-crystalline percolamona, vitrous, rearly spritie, members,  6395 6295 DOLONITE: brown and cross-brown, micro to fine crystalline, percolamona vitrousa, secrece, fronty, becoming darker at bettem.  6325 6335 GORE M., 17. Recovery 10 foots.  1 1/2 feet - DOLONITE: seekey gray, micro-crystalline, percolamona, glightly vitrouse, hard. Breezia of tiny angular to sub-cappilar, wasriented fragments committed with white granular secondary calcitee, Gore completely shattered. Probably foult grage. Abundant high angl freetures coated with solution. Abundant conterted, very soft, ourbon account shale weignes. Here wellied, canterted weglets, 1 1/2 feet - DOLONITE: deat gray, fine crystalline, vitrouse, alightly	5030	6050	DOLOGITE; green and brown, medium to course crystalline, hard, interted
6050 6090 DOLONIES brown, lithographic to micro-oxystalline, percelanceus, inter- bedded with  SAMESTONE and QUARTETES smokey gray, scarce grain, well-rounded and  miner thin bods of  LDESTONE; brown-gray, micro-crystalline, vitrocus, dolonitie,  6090 6290 DOLONIES; light cross-brown and occasional smokey gray, lithographic to  micro-crystalline, vitrocus, very percelanceus, slightly sucress with  essentianal black, environmenus, alightmedded shale parting,  LOST SONE DELLIDED HED at 6286,  DOLONIES; smokey gray, grayish-brown and groun-brown, micro-crystalline  percelanceus, vitrocus, revely pyritie, sources,  6395 6325 DOLONIES; brown and grass-brown, micro to fine crystalline, percelanceus  vitrocus, sources, fracty, becoming darker at bottom.  6325 6535 GORE NO. 17. Recovery 10 foots  1 1/2 foot - DOLONIES; smokey gray, micro-crystalline, percelanceus,  glightly vitrocus, bards. Brookin of they angular to sub-capalar,  morricated fragments communed with white gramlar secondary calcite.  Gare completely shuttered. Probably fault grage, Abundant high angle  fractures conted with calcite. Abundant contexted, very soft, curbon  secons shale weigns. Euro unfilled, contexted weglets.  1 1/2 foot - DOLONIES dest gray, fine crystalline, vitrocus, alightly		-	with miner bods of
6050 6090 DOLONIES brown, lithographic to micro-oxystalline, percelanceus, inter- badded with  SAMDSTONE and QUARTERS smokey gray, scarce grain, well-rounded and  miner thin bods of  LDESTONE; brown-gray, micro-crystalline, vitrocus, dolonitie,  6090 6290 DOLONIES; light erose-brown and occasional smokey gray, lithographic to  micro-crystalline, vitrocus, very percelanceus, slightly sucress with  escasional block, carbouncesus, alightmedicd shale parting,  LOST SONE RELLING MED at 6286,  DOLONIES; smokey gray, grayish-brown and grown-brown, micro-crystalline  percelanceus, vitrocus, revely pyritie, sucress,  6395 6325 DOLONIES; brown and grass-brown, micro to fine crystalline, percelanceus  vitrocus, sucress, fracty, becoming darker at bottom.  6525 6535 GORE NO. 17. Recovery 10 foots  1 1/2 foot - DOLONIES; smokey gray, micro-crystalline, percelanceus,  glightly vitrocus, bards. Brooks of they angular to sub-capalar,  macrimated fragments commuted with white gramular secondary calcite.  Gere completely shuttered. Probably fault grage, Abundant high angl  fractures conted with calcite. Abundant contexted, very soft, curbon  secons shale weigns. Euro unfilled, contexted weglets.  1 1/2 foot - DOLONIES desk gray, fine crystalline, vitrocus, alightly			DOLOMITE: light brown, micro-crystallino, pescalaments,
babled with  SAMDSTORE and QUARTETE: smokey gray, source grain, well-rounded and  miner thin beds of  LDGSTONE: brown-gray, micro-crystalline, vityreous, dolomitie,  6090 6290 DOLOMITE: light errem-brown and escanional suckey gray, lithographic to  micro-crystalline, vityreous, very percalaments, slightly sucress with  constituted hinch, carboungeous, alightmedded shale parting,  LOST SONE DELLING MED at 6286,  DOLOMITE: smokey gray, grayish-brown and errem-brown, micro-crystalline  percalaments, vityreous, revely pyritie, sucress.  6395 6325 DOLOMITE: brown and errem-brown, micro to fine crystalline, percalaments  yityreous, samenes, fracty, becoming darker at bettem.  6325 6535 GORE NO. 17. Recovery 10 feets.  1 1/2 feet - DOLOMITE; smokey gray, micro-crystalline, percalaments,  glightly vitrous, hard. Breezia of tiny angular to sub-angular,  weariented fregments communed with white granular secondary calcite.  Gere completely shuttered. Probably fault grage. Abundant high angular fractures conted with calcite. Abundant contexted, very soft, carbon  secons shale weigns. Bare unfilled, centerted weglets.  1 1/2 feet - DOLOMITE: dest gray, fine crystalline, vitrous, alightly	6050	6090	"
miner thin bods of LDESTONE; brown-gray, micro-crystalline, vitreous, dolomitic.  6090 6290 DOLOMITE; light eross-brown and occasional sucher gray, lithographic to micro-crystalline, vitreous, very percelaments, alightly sources with escapional black, carbonageous, alightmedded shale parting.  LOST SONE IRILLIES MED at 6286,  DOLOMITE; smoker gray, grayish-brown and grown-brown, micro-crystalline percelameous, vitreous, rurely pyritie, sources.  6395 6325 DOLOMITE; brown and cross-brown, micro to fine crystalline, percelameous vitreous, sources, fracty, becoming darker at bottom.  6525 6535 CORE NO. 17. Recovery 10 foots.  1 1/2 foot - DOLOMITE; smokey gray, micro-crystalline, percelameous, glightly vitreous, hard, Breezia of tiny angular to sub-engular, wasriested fragments communed with white granular occordary calcite.  Gere completely shattered. Probably fault gauge, Alumbant high angl fractures conted with ealerite. Alumbant conterted, very soft, surbon assess shale veigne. Ears wafilled, contexted veglets.  1 1/2 foot - DOLOMIE; dark gray, fine crystalline, vitreous, alightly			
miner thin bods of  LDESTORE: brown-gray, micro-crystalline, vitreous, dolomitic.  6090 6290 DELOMITE: light eross-brown and occasional sucher gray, lithographic to micro-crystalline, vitreous, very percelaments, alightly sucress with escapional block, carbonageous, alightmedded shale parting.  LOST SONE DELLING MED at 6286,  DELOMITE: sucher gray, grayleb-brown and grown-brown, micro-crystalline percelameous, vitreous, rurely pyritie, sucress.  6395 6525 DELOMITE: brown and crums-brown, micro to fine crystalline, percelameous vitreous, sucress, fracty, becoming darker at bottom.  6525 6535 CORE NO. 17. Recovery 10 foots.  1 1/2 foot - DELOMITE: suckey gray, micro-crystalline, percelameous, glightly vitreous, hard, Breezia of tiny angular to sub-engular, wastiented fragments communed with white granular occordary calcite.  Gere completely shattered. Probably fault gauge, Alumient high angl fractures conted with enligits. Alumient conterted, very soft, surbon assess shale veigne. Enro wafilled, contexted veglets.  1 1/2 foot - DELOMITE: dark gray, fine crystalline, vitreous, alightly			SANDSTONE and QUARTZITE: smokey gray, coarse grain, well-rounded and
6090 6290 DOLONUTE: light erosm-brown and occasional suckey gray, lithographic to micro-crystalline, vitrosus, very percelaments, slightly sucress with essentional black, enviousesous, slightenedded shale parting.  LOST SOME DRILLIES MID at 6286.  6290 6395 DOLONUTE: suckey gray, grayleb-brown and grown-brown, micro-crystalline percelaments, vitrosus, revely pyritie, sucress.  6295 6225 DOLONUTE: brown and grown-brown, micro to fine grystalline, percelaments vitrosus, sucress, fracty, heading darker at betten.  6225 6235 CORE NO. 17. Reservery 10 feet.  1 1/2 feet - DOLONUTE: suckey gray, micro-crystalline, percelaments, glightly vitrosus, hard. Brootis of timy angular to sub-angular, unswiceted fragments computed with white granular secondary calcite.  Gare completely shattered. Probably fault gauge, Abundant high angular procuses shale veignes. Rare unfilled, contested veglets.  1 1/2 feet - DOLONUTE: dark gray, fine exystalline, vitrosus, alightly			
6090 6290 DOLONGER: light erosm-brown and secondonal suckey gray, lithographic to micro-crystalline, vitrosus, very percelaments, slightly sucress with escentional black, carbonecous, slightmedical shale parting.  LOST SOME DRILLIES MED at 6286.  DOLONGER: smokey gray, grayleb-brown and green-brown, micro-crystalline percelaments, vitrosus, revely pyritic, sucress.  6295 6225 DOLONGER: brown and green-brown, micro to fine grystalline, percelaments vitrosus, sucress, fracty, heading darker at bettem.  6225 6235 CORE NO. 17. Reservery 10 feet.  1 1/2 feet - DOLONGER; suckey gray, micro-crystalline, percelaments, glightly vitrosus, hard. Breezia of timy angular to sub-angular, unseriented fragments computed with white granular secondary calcite.  Gare completely shattered. Probably fault gauge, Abundant high angular procuses shale wedges. Rare unfilled, contested weglets.  1 1/2 feet - DOLONGER dark gray, fine exystalline, vitrosus, alightly			LDGESTONE; brown-gray, micro-crystallino, vitreous, dolomitic,
miare-arystalline, vitrasus, very persolaneous, slightly secrete with especianal block, earbounceous, slickensided chale parting.  LOST SORE IRILLIES HID at 6206.  6290 6395 DOLONITE: suckey gray, grayleb-brown and erose-brown, micro-crystalline persolaneous, vitrasus, revely spritie, secrete.  6395 6525 DOLONITE: brown and erose-brown, micro to fine erystalline, persolaneous vitrasus, secrete, fracty, becoming darker at bottom.  6525 6535 CORE NO. 17. Receively 10 foot.  1 1/2 foot - DOLONITE: suckey gray, micro-crystalline, persolaneous, glightly vitrasus, hard. Breezia of timy angular to sub-angular, was risated fragments computed with white granular secondary calcite.  Gere completely shattered. Probably fault graye. Abundant high angl fractures conted with calcite. Abundant contexted, very soft, curbon account shale veriges. Eare unfilled, contexted veglets.  1 1/2 foot - DOLONITE: dark gray, fine enystalline, vitrasus, alightly	6090	6290	
generated block, earbourgeous, aliebemeided shale parting.  LOST SORE DELLIES MED at 6286.  6290 6395 DOLONITE; smokey gray, graylab-brown and green-brown, micro-crystalline percelaments, vitroous, revely pyritis, marross.  6395 6525 DOLONITE; brown and green-brown, micro to fine grystalline, percelament vitroous, marross, fracty, becoming darker at bettem.  6525 6535 CORE NO. 17. Receivery 10 feet.  1 1/2 feet - DOLONITE; smokey gray, micro-crystalline, percelaments, glightly vitroous, bard. Breetia of timy angular to sub-angular, marrianted frequents committed with white granular secondary calcite.  Gere completely shattered. Probably finalt grage. Abundant high angli frectures conted with calcite. Abundant conterted, very soft, carbon access shale weigns. Ears unfilled, contexted vaglets.  1 1/2 feet - DOLONIES dark gray, fine crystalline, vitroous, alightly			micro-crystalline, vitrosus, very persolaneous, slightly sucross with
LOST SOME IRILLIES MED at 6286.  6290 6395 DOLOMITE; smokey gray, grayish-brown and errom-brown, micro-crystalline percelenceus, vitrooms, revely pyritie, smorese.  6395 6525 DOLOMITE: brown and errom-brown, micro to fine crystalline, percelanceus vitrooms, smarese, fracty, becoming darker at bottom.  6525 6535 CORE NO. 17. Recovery 10 foot.  1 1/2 foot - DOLOMITE: smokey gray, micro-crystalline, percelanceus, glightly vitrooms, bard. Broomin of tiny angular to sub-angular, wasriested fragments commuted with white grammlar secondary calcite.  Gere completely shattered. Probably family gauge, Abundant high angular fractures conted with enlights. Abundant conterted, very soft, curbon account shale weigns. Ears unfilled, contexted weglets.  1 1/2 foot - DOLOMITE: dark gray, fine envetabline, vitrooms, alightly	1		
percelances, vitrous, revely pyritic, server.  6995 6525 DECRITE: bross and cream-bross, micro to fine crystelline, percelances vitrous, marross, fracty, becoming darker at bottom.  6525 6535 CORE NO. 17. Recovery 10 feet.  1 1/2 feet - DECRITE: gentary gray, micro-crystelline, percelances, glightly vitrous, bard. Breezis of tiny angular to sub-angular, was leaded fragments commised with white granular secondary calcite.  Gore completely shattered. Probably feets graye. Abundant high angl fractures conted with calcite. Abundant contexted, very soft, carbon account shale veigns. Ears wefilled, contexted veglets.  1 1/2 feet - DECRITE: desk graye fine enystelline, vitrous, alightly			
percolanceus, vitrous, revely pyritic, secreto.  6395 6525 DECRITE: brown and erosm-brown, micro to fine crystalline, percolanceus vitrous, marroco, fracty, becoming darker at bottom.  6525 6535 CORE NO. 17. Recovery 10 foot.  1 1/2 foot - DECRITE: gentey gray, micro-crystalline, percolanceus, glightly vitrous, bard. Breezis of tiny angular to sub-angular, uncriented fragments commited with white granular secondary calcite.  Gere completely shattered. Probably family gauge. Abundant high angular fractures conted with calcite. Abundant contexted, very soft, carbon second with calcite. Abundant contexted, very soft, carbon second while weights. Bare unfilled, contexted veglets.  1 1/2 foot - DECRITE: dark gray, fine exystalline, vitrous, alightly	6290	6395	DOLOGITE: smoker gray, grayish-brown and green-brown, micro-crystalline
6395 6325 DECRITE: bross and ereas-bross, siero to fine erystelline, percelaneous vitrossa, secrete, fronty, becoming deriver at bottom.  6525 6535 CORE NO. 17. Recovery 10 foot.  1 1/2 foot - DECRITE: suckey gray, micro-crystelline, percelaneous, glightly vitrossa, hard. Brossia of timy angular to sub-angular, uncriented fragments computed with white granular secondary calcite.  Gere completely shattered. Probably fault gauge, Abundant high angular secondary soft, carbon assess shale veigns. Rare unfilled, contexted veglets.  1 1/2 foot - DECRITE: derk gray, fine crystalline, vitrosus, alightly			,
yitrome, maroes, frosty, becoming darker at bottom.  6525 6535 CORE NO. 17. Recovery 10 foot.  1 1/2 foot - DOLOMITE; mokey gray, micro-crystalline, porcelaneous, glightly vitrosus, hard. Broopin of timy angular to sub-angular, mericated fragments computed with white grammlar secondary calcite.  Gere completely shuttered. Probably fault gauge. Abundant high angli fractures conted with calcite. Abundant contented, very soft, surbon account shale wedges. Rare unfilled, contented vaglets.  1 1/2 foot - DOLOMIEs dook gray, fine crystalline, vitrosus, alightly	6395	6525	
6525 6535 CORE NO. 17. Recovery 10 foot.  1 1/2 foot - DOLCHITE; quoisty gray, micro-crystalline, porcelanosus, glightly vitrooms, hard. Breesis of tiny angular to sub-angular, wasriented frequents computed with white granular secondary calcite.  Gere completely ghattered. Probably foult gauge. Abundant high angle frectures conted with enlette. Abundant contented, very soft, carbon access shale veigne. Ears unfilled, contexted veglets.  1 1/2 foot - DOLCHIES desk gray, fine exystalline, vitroous, alightly			
2 1/2 feet - DOLCHITE; makey grey, micro-crystalline, porcelamous, glightly vitrosus, hard. Breesia of timy angular to sub-engular, wavicated frequents computed with white granular secondary calcite. Gere completely shuttered. Probably fault gauge. Abundant high angl frectures conted with calcite. Abundant contested, very soft, carbon access shale veigns. Ears unfilled, contested veglets.  1 1/2 feet - DOLCHIES desk gray, fine expetalline, vitrosus, alightly	6525	6535	
glightly vitrous, hard. Breecis of timy angular to sub-engalar, massionted frequents computed with white granular secondary calcite.  Gore completely shattered. Probably fault gauge. Abundant high angle frectures conted with calcite. Abundant contented, very soft, curbon account shale veigns. Here unfilled, contented veglets.  1 1/2 foot - DGLOGUES door gray, fine expetalline, vitrous, alightly			1 1/2 feet - DOLONITE: gueley grey, micro-crystalline, percelancous,
uncriented fragments computed with white granular secondary calcite.  Gere completely shuttered. Probably feelt gauge. Abundant high angle fractures conted with calcite. Abundant contented, very soft, carbon accous shale veigns. Ears unfilled, contented veglets.  1 1/2 feet - DOLGETES desk gray, fine exystalline, vitrosus, alightly			glightly vitrosus, hard, Breesia of timy angular to sub-angular,
Gore completely shattered. Probably fault gauge. Abundant high angle fractures scated with calcite. Abundant contested, very soft, curbon account shale voiges. Ears unfilled, contested veglets.  1 1/2 fact - DOLGETE: dest gray, fine expetalline, vitrous, alightly			
fractures conted with calgite, Abundant conterted, very soft, curbon access shale vedges. Enro unfilled, conterted veglets,  1 1/2 feet - DOLGETE: dest gray, fine expetalline, vitrous, alightly			
1 1/2 feet - DOLGGTE: desk gray, fine exystalline, vitrosus, alightly			fractures cented with enleite, Abundant conterted, very soft, curbon
1 1/2 feet - DOLGGTE: desk gray, fine exystalline, vitrosus, alightly			The state of the s
			<u>-</u>
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		PAGE NO.
BEC		TWPRGELOCATION
FARM		NO
OWNER		STATE COUNTY
BAMPLES F	ROM	TO. EXAMINED BY DATE
FROM	то	LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS
_		Core No. 17 - contid.
		7 foot - DOLOGIES light maker graphrone, fine exystelline, vitroous,
		very possesiameous, brittle, were finely disseminated praise, grading to
		BOLDWITE: light erem-brown, where-erretelline, percelements, Moderately
		freshered. Occasional conterted micro-reglete filled with calcute.
		Alterdant alighensided surfaces.
. 41		Fair dip cheeks of 10-120 in shale partings. No shows of gas or oil.
6535	6550	DOLARITE: erosa-gray, medium to fine exystalline, percelamente, suprose-
6550	6655	
9234	9077	DOLOGIES areas, areas-breen and light suckey gray, micro-crystalling
		powerlaneous, vitreous, merely slightly paritie, with operational coleaneous
6635	6680	
9932	<b>3350</b>	DOLOGTE: interbedded dirty gray, house-gray and eress-brown, medium
444	4	enystalline, slightly vitrome, hard.
6680	6770	DELCHITE: errors and light makey gray, miero to fine erystelline,
	· ·	Titreone, very persolaneous with rare this beds of
	! 	DOLCHITE: eruss, lithegraphie, very permelaneous beauting dark gray,
		fine exystalline, viterous at better.
6770		TOP LAXETONE DOLONGER.
6770	6665	DELCRITE: aroun grading to dark gray, searns saystalline, method, slightly
· • · · · · ·		vitreens, becoming answers and pyrities at bottome
6865	6495	GHRT: dark gray to black, pure, interhedded with
	· · · · · · · · · · · · · · · · · · ·	DOLONITE: dark gray, brown and errom, miero to fine erystalline, perso-
		Jamesus, vitroons,
6895	6925	DOLONGITES arrow and eresushments fine expetalline, percelaneous, marrows,
6925	7008	DECOUTES green, madden exystalline, tight, hard, perselencous, becausing
		charty and silicome at 6015.
7006	704	OCRE NO. 18. Receivery 2 Cooks
		DELCHITE: eresulab contar gray, essent enystalling, hard, heavily fractured,
		Proctomes mostly filled with separations salette, econstantly with
		mobiler mility short and secoly with allow questains. He show of
7004	7050	her course group, commo anymical time, shortly, becoming dealt gray, films
		erystalling, charty and sillnesses at bettem.
ł		

		PAGE NO.
BEC		TWP,RGELOCATION
FARM		NO
		NOELEVATION
OWNER		STATE COUNTY
AMPLES	FROM	TO TO EXAMINED BY DATE
FROM	то	LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS
7050	7060	DOLLMITE: dirty bross, fine saystelline, mettled, manage,
7060		DOLOMITE green, mether to course crystalline, very percolamone, tight,
		Witnesse.
7130	7220	POLORUTEs light cheselate brown grading to light maker gray, fine arrately
		line mayore, without, would make be added to the carried
7220	7300	line, merces, vitreous, percelaneous, beauting alightly sharty at betters. DOLONTE: eross, melian saystelline, very percelaneous, grating to
<del>-</del>		DOLCHUTES deals sweet madden assessed 114mm an
		POLINITE: desk gray, medien crystalline, vitrous, method, rerely interhedded with
		DOLOGIE; gray, miero -erystallino.
7300	7320	DOLONGTE; death grey to death become grey, medium exystalline, vitrogue,
		mobiled, cherty, slightly silicons,
7320	7345	
		DOLONTE: erom and dark gray, micro to fine enystalline, charty with abundant secondary calcide.
		LOST SOME DELILING MED SLOWLY AN 7730.
7345	7375	
		DOLGOTE: gram-brown, micro to medium orystalline, surross, sandy,
7375	7385	CORE NO. 19. Recovery 4 feets
	· · · · · · · · · · · · · · · · · · ·	DOLCHETE: light maker gray and light gram-lanes, makes to occurs
		exystalline; very percelaneous, glightly vitrous, Yery heavily from
		terral and shattered. Fractures generally spen with some contings of
		salaite, Abundant reglets, partially filled with selaite. In shows
7385	7440	
		MECHTER light makey gray and evens, matter exystelline, very person. Lamence, increase in calcide.
7440		DETERMENT PARTY AND THAT
		What 407A Times
	I	TRILLING MAPER ADMINISTRA
7440	7705	PROBABLY MUNICIPA OF 2
		Libertreens diving, entitle game and blooks missessessesses. Time, very shally,
		enchangement, way shoulded all shouldes and
		Militaria duck gray, Line supplicition, way without

BEC	.,	TWP RGE LOCATION
FARM		NO
WNER		STATE COUNTY
AMPLES FRO	ом	C5
FROM	то	LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS
7505	7570	LDESTORE: dirty, earthy gray to dark gray, earbonnesons, very shaly,
		slightly vitreous, very abundant slickensides, becoming brittle and
		answers at bottom
7570	7580	DOLOROTE: earthy gray, fine exystalline, sucrees, shaly, pyritie, with
-		nones of "secris-like" limertone. Good peresity.
7580	7595	CORE NO. 20. Recovery 15 feet.  2 feet - ROLCHUTE: dark gray, fine crystalline, sucress, pyritie, alight:
•		shely, opensional thin soft, black, earhonescome, shele partings which
		are aliekonsided. Year year dip sheeks of 10°, here time, vertical,
		enicite-filled fractures. Poresity - A.9 to 5-25; personbility sure.
		Spotty eder of sour gas throughout cores
		6 feet - DOLOMOTEL as above, becoming shalp. Rare partially calcite-fill
		rage up to 1/2" disunter at hothers. Poor dip checks of 15°.
-		4 fact = DOLOMTE: dark broamish-gray, fine to mailing erystalling, shaly
		absolunt rieroscopie veglete. Poweelty - 4.9% permebility mere.
	ــ	Moderately functured.  Extremely vaggy at bottom, with wage up to 1 1/4P dispoter. Percenture
		20% estimated pursuability fair.
		3 fast - DOLOROTE: dark broadsh-gray, madhan to scarce erystalline, per-
		alightly vitreous, heavily frestured. Occasional vage as above.
		Perceity - 3% percentility - 1.2 millidarsys.
7555	7995	IRIL STEM FORMATION TEST NO. 2.
		Rom Halliburton Oil Well Committing Co. Symmtion tester on April 15, 195
		to test interval 7555 to 7595. Seel open 32 minutes — similar 15 minutes — Strong blow for 5 minutes — faint blow for 10 minutes — year faint blow
		through remainter of toot. Not finish rise above packers 300 feet.
		Represent 360 feet drilling and alightly out with fresh unter-
		Initial hydrostotic pressure: 3625 pel.
		Initial flow proposures name.
		Final flor pressures notes
		Pinel hydrostatic processes \$406 pel.
		Mad-in property Mil pale

... LOCATION... ELEVATION OWNER SAMPLES FROM 7295 TO 8140 EXAMINED BY FROM то LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS Drill Stem Fernation Test No. 2 - contide MEXICHT Ph CHILORIDES Drilling Mad 9 lbs/mllen 100 parts/million DST Fluid Sample No. 1 8.7 9 Less than 100 Sample No. 2 8.8 Less then 100 Sample No. 3 2.8 8.5 Less then 100 Sample No. A 8.9 8.5 Less than 100 DOLOGUTE: dark brounish-gray, fine erystelline, vitreous, sucrose. 7995 7610 7610 DOLOMITE: light smokey gray, medium crystalline, vitreous, poreclaneous, 7620 tiete. 7620 DULCHUTE: chocolate breen and light to dark maskey gray, micro-crystelline, 7700 vitreous, sucrose with rare beds of DOLOMITE: lithographic, fine and medium anystelline. DOLOMITE: erosm-brown, medium erystalline, mottled, vitrooms, slightly 7760 7800 percelaneme 7800 DOLCHITES eress-brown grading to dark gray and gray-brown, micro to 7875 fine erystalline, vitrooms, porceleneous, DOLCHITE: light and dark brown, medium erystalline (traces of micro-7875 7920 erystalline), vitrome, slightly mottlede 7920 DOLONGYE: bluish seelesy gray, fine crystalline, vitroous, tractly, 7930 DULCHITE: dirty brown, course exystelline, slightly vitreous, 7930 7940 DCLOSUTE: smokey gray, micro-crystalline to dense, porcelangous, 7940 7970 DOLCHUTE: erem-brown, medius erystelline, vitreous, slightly sucrose, 7970 8080 alightly percelaneous. LOST SOME IRRILLING MED SLOWLY at SOME. 8040 DOLOGUE; thin bedied greys, micro to fine crystalline, porcelaneous. مديه 8110 SECOND TOP SEVY DOLOGYEL SANDY DOLLDOYER spream and makey gray, fine crystalline with occarse 2220 8125 grained, flexishing send grains and DOLCHCYE: hypen-gray, lithographic, percolanous, DELCHETE, eyests-lumes and gray-bronce, misse-crystalline, vitroous, **8125** 9770 norrelaneurs,

PAGE NO.\_\_\_

<b>SEC</b> ,		TWP. RGE. LOCATION
FARM		NO
OWNER	M	STATE COUNTY
SAMPLES FR	ом	LLO TO 8604 EXAMINED BY DATE
FROM	то	LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS
80,40	81.59	DOLOMOTE: erosm-brown, medium erystalline, porcelaments, with traces of
		quartaite-filled veinlets, greding to
		DOLORITE: dark gray, fine orystelline, vitacous,
81.59	8172	CORE NO. 21. Recovery 7 feet.
		DOLORUTE: dark gray to brounish-gray, fine to sedium exystalline, very
		hard, common pin-bole porecity, slightly sucrees, slightly vitroous,
		brittle, splintery. Entire resevered sere heavily fractured and
		completely shattered, Fractures generally elecad, but occasionally
		conted with a film of enloite. Four dip cheeks of 20°. Lower feet of
		recovered core, in part, very SANDY: medium grain, sub-engalar to sub-
		rounded in matrix of silicens delenate,
4172	245	DOLOGIE: milky ereen-brown, lithographie, very percelaneous, becoming
do se		slightly sugress in lower part.
8245 8250	8320	DOLOGITE: dark gray, fine crystalline, vitrous, shaly, silicous, BOLOGITE: broamish-suckey gray, lithographic, slightly percelances, very
azyu	e jaco	alightly shaly,
8320	8340	DOLOGIES block, micro-exystelline, very vitropus, very shely.
8340	STTO	DOLONGTE: breamint-gray to grayint-brown, lithographic, slightly vitreous
0.40.4		to dell, slightly shelp.
atto	8470	DOLONITE: gray, demon, slightly vitroous, hard, very silicous, grading to
		thin bodded miero and medium exystelline, vitrogue, contr.
8470	<b>8500</b>	DOLONITE: dark grey and dark broadsh-grey, micro-crystalline, very
		vitrous, shaly, surross.
8500	8580	DOLOGIE: dark broundsb-gray, niero-exputallino, sucreso, very vitrome,
		alightly silicones, becaming darbur and insugnatingly previous, Gamen
		black, surbunnesus, aliekansidel shale partings.
8580	<b>8604</b>	DOLCHUTE: errors-bring to makey gray, micro-enystallino, percolanous,
		vitrous, muran,
8604	<b>63.7</b>	CORE NO. 22. Recovery 23 feets
		4 foot - DOLCHETTE deak gray, fine suscess, vitrous, hard, slightly silty,
		Moderately to heavily fractured, Prestupes spetal with calculate,
		9 foot - Difficially makey gray, anytho-manner, withrever, very hard,
		peredenses, slightly cilty, slightly pillsooms. My checks fair to

SEC	and the second control of the second	TWP,RGELOCATION
FARM		NO. ELEVATION
OWNER		STATECOUNTY
SAMPLES FR	ом 🐧	OL TO SOLO EXAMINED BY DATE
FROM	то	LITHOLOGIC DESCRIPTION, FORMATION AND REMARKS
		Core No. 22 - contide
		good of 30° slong abundant thin bodded, carbonaccous-coated stylelites.
		Abundant were mently filled with delegate and secucionally with saleite.
		At 8613, fmilt dipping 500 (probably miner displacement). Abundant
		glickensided shale partings. Very heavily freetured and shattered.
j		No shous of gas or oil.
8617	8735	DOLOMITE: dark gray grading to smakey gray and brown, micro to fine
		erystalline, sucrese, percelaneous, hard, vitrosus with rare aliakanaided,
		black, earbonecous chale partings,
8735	8740	SHESTORE: white, very fine grain, delemitie, sucrees, frishle.
6740	8865	DOLONITE: eream-brown and suckey gray, fine to micro-crystalline, very
		sucrose, very vitreous, percelaneous, slightly siliceous,
. 8865	4677	DOLOMITE: cream-brown, medium to course crystalline, slightly vitrasus,
		pare.
8877	2009	CCRE MD. 23. Receivery 3 feets.
,		DOLCHITE: suckey gray, fine secrece, hard, brittle, pure, slightly vitreous
•		frosty, very heavily fractured and completely shattered. Yaga are common
:		open to partially filled with exhaits. Good permeability and percently in
		rugs and fractures. No show of gas or oil.
8889	8953	DOLCHUTE: makey gray grading to darker, micro to fine exystalline, very
		servese, freely, vibreeus, silicoms.
8953		SECOND TOP LAKETOWN DOLOGOTE.
8953	8972	DOLCHUTE: eronm and eronm-brown, convex exystalline, slightly vitrooms,
		glightly parealeneous, hard, pure,
8971	8987	QQR 10. 24. Besevery 16 feet.
		DECEMPE eromogeny, common to very common crystalline, slightly vitroms,
		slightly provolenous, hard, tight, with streets of embuseous misrial
		very heavily fractured. Fractures merientel, elecal, measured. For
		mall open to partially elecal rugs, becoming notemately functured and
		very reggy. Togs are contented, open up to 1/3º dismeter. Botton
		6 feet of some way heartly functional as top of some. Year poor, we
		reliable tip shocks on stylickition of 25-36°. In shows of gas or oil.
2907	9000	Delatitie de shuto dero.

Budget Bureau 43-R368.9. Approval expires 12-81-89.

(SUBMIT IN TRIPLICATE)

#### UNITED STATES

#### DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELL

OBIGINAL FORWARDED TO CASPER

Land Office Salt Lake

Lass No. 069312 Unit Bishop Springs

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
IOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING.
IOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
OTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
OTICE OF INTENTION TO PULL OR ALTER CASING.	SUPPLEMENTARY WELL HISTORY.
IOTICE OF INTENTION TO ABANDON WELL.	

		no-9, 19_52
Well No is locate	ed 8822 45 from $\binom{N}{S}$ line and 11.	155.38 E line of sec.
When a	ed 8822 (Sfrom $\begin{cases} N \\ S \end{cases}$ line and 11 arrept about 12 in the C to (Range)	4.m) 4-166-170)
Wildons (Field)	(County or Subdivision)	(State or Territory)
The elevation of the derrick flo	or above sea level isft.	

**DETAILS OF WORK** Bishep Springs Unit No. 1. ective sands; show sizes, weights, and lengths of proposed easings; indicate mudding jobs, esmeat-ing points, and all other important proposed work)

13-3/8" OD Casing set 5221 and commented with 425 sacks comment. Circulated. TD 9058' Chert topped 9042'. Will have hole full of heavy made Will place to sacks cement to fill 25' below surface casing shee and 23' up in surface easing. Will place 10 sacks cement in top of surface pipe and bottom of cellar with piece h" pipe cemented in cellar extending h' above ground level. A cap will be welded on top of 4" marker. Callar and rat hole will be filled slightly above ground level. Verbal approval granted 6-9-52, by Mr. Charles Mouptmann to Plug & Abandon.

I understand th	at this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.
Company	
Address	134 3. Manet Ave. 10N 12 1952
	Cooper, Wrenday July By
	Approved to the By
	District Control of the Control of t

Form 9-331 a

#### (SUBMIT IN TRIPLICATE)

#### UNITED STATES

#### DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

	77	
Land Offic	Salt	Lake
Land Office	i <b>e</b> – ≨	
	0693	12
Lease No.		
Bi	shop	Springa
Unit		·

American Committee of the Calleton

NOTICE OF INTENTIONOTICE OF INTENTIONOTICE OF INTENTIONOTICE OF INTENTICE NOTICE OF INTENTICENOTICE	N TO CHANGE PLAN N TO TEST WATER N TO RE-DRILL OR N TO SHOOT OR AC N TO PULL OR ALT ON TO ABANDON WE	SHUT-GIF PEPAIR WELL. IDIZE ER CASING	SUBSEQUENT SUBSEQUENT SUBSEQUENT SUBSEQUENT SUPPLEMENTA	REPORT OF SHOO REPORT OF ALTEI REPORT OF REDR REPORT OF ABAN RY WELL HISTOR TREPORT	R SHUT-OFF TING OR ACIDIZING RING CASING RILLING OR REPAIR RIDONMENT RY TO Abandon We.	
	(INDICATE	ABOVE BY CHECK MARK	K NATURE OF REPORT	, NOTICE, OR OTH		10 50
			June	17,		, 19 <u>24</u>
Vell No. 1	is loca	8822.65 ted ft. fi		11,455.88 d ft. alt Lake l (Mer.du	from E line of	<b>sec.</b>
Wildcat	ec. No.)	Mill	ard		Utah (State or Territory)	
(Field	1)	() can	ty or Subdivision)		(State of Territor)	
	Called dorrich	floor above sea	levei is	ft.		
The elevation of	or the derrick			<b>N</b> V		
		DET	AILS OF WOI	KK.	indicate mude	ding jobs, coment-
State names of and	expected depths to	objective sands; show	sizes, weights, and le Il other important p	ngths of propose roposed work)	d casings; indicate mude	
ted. TO 90! Utah Portla	68' Chert, nd Cement p	topped 90421	to 4941. C	null of mapped top has pipe in	25 sacks cemen savy mud, plac of surface pi n cellar to ex	ne up in
Company	nat this plan of wor Rulf Oil Con	rporation	oal in writing by the	Geological Surve	y before operations may	, be commensed.
Add1635			3 500	,		
(	Casper, Wyo	dys.	264, H. P.	9 By		
		(OUE.	***************************************	/Jan. 1	trict Superint	andent.

U. S. GOVERNMENT PRINTING OFFICE

/dget	Bureau	No.	42-R355.2	,
🕯 prova	sl expire	s 12-	31-52	•

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U.	S. LAND OFFICE	Salt	Lake	City
SE	HAL NUMBER			
LE.	ASE OR PERMIT TO	o Prose	ECT	

## UNITED STATES DEPARTMENT OF THE INTERIOR

AUG 1 4 1952

GEOLOGICAL SURVEY

ORIGINAL FORWARDED TO CASPER

L,	OCATE WE	LL CORRECT	LY	L	OG OF	OIL OF			
Con	apany G	ulf Oil Co	rporatio	n	Ada	iress Se	L Davi	d Kedth I	Building
Less	or or Trac	U.S.Lea	se #0693	12		Bishon Snr	oines I	e City, I	) tan
Well	1832 F	Sec	8 T 165	R. 17W.		d Bishop Spr			
		$ft. \left\{ \begin{array}{l} \mathbf{N} \cdot \\ \mathbf{S} \cdot \end{array} \right\} \stackrel{\sim}{\text{of}} \stackrel{\rightarrow}{\rightarrow}$	1 1	L,455.88	tr fr	WICOYN	Coun	ty Mills	ırd
	The inform	nation given	herewith	is a cons	3	Time of Sec.	1-103-	-10W El	evation 5768
so fa	r as can b	e determined	d from all a	vailable r	ece and corr eco <b>rds</b> .	rect record of t	he well	and all wo	ork done there
	July 29				Sign	red the	CHENE	rd	
					٠	Title	Actin	g Area M	anager
Com	ne summ nenced dr	ary on this l	page is for	the condit	ion of the w	ell at above da	te.		
Com	nenced Gr	unng	October	. 1	9.51 Fini	shed drilling	Ju	ne 10	19 <b>52</b>
			O			OR ZONES			
No. 1	, from	ione	. to	(	Denote yas by				
	, from		to			4, from		to	
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No. 2,	from		to			3, from		to	~ ·- · . <u>-</u>
				CAR	No. ING RECO	4, from		to	
Size	Weight	Threads per			ING RECO	RD			
2 /Om	per foot	ineh	Make	Amount	Kind of shoe	Cut and pulled fr		Perforated	Purpose
0. 8 u	<b>&gt;4.</b> 5	<b></b>	J-55	522	Conv.	In hole	Non		Surface C
#113-176	Butter of	ericologico estable Cologicales de la cologica de la cologica de la cologica de la cologica de la cologica de la cologica de la co	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ten in Links 14-2.	1. 10 ; 67 + ; p	Atories in a service	35 : 12	at a lile at the	· 1
	e 27, 17	t or the desired	A. p.	Marie I	the sign and	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	114 (81) 1)	te semie vie	
				10K) ()	to be seed a way of	LINE WATER			
<del>!</del> .			MUDDI	NG AND	CEREE				
Size	Where set	Numbe	er sacks of cem			NG RECORD	) 		
3/8	5221		i de de de centre		Method used	Mud gravity		Amount of	mud used
					HOWCO				
	· · · · · · · · · · · · · · · · · · ·								***************************************
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				PLUGS A	ND ADAP	TFRS			
eaving	r plugM	aterial	<u> Kina</u>	7			l		
	g plug—M s—Materi		Miles	Ţ	ength		Dopus	set	

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łeaving pl	lugMate <b>na</b> l		t water (1)		<b>-</b> - <b>-</b>	
dapters-	-Material		Size		-	
		S	HOOTING R	T		To the planted out
Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
						n de la companya de l
			TOOLS US			
Rotary to	ols were used fro	om Surface	feet to	ID. feet,	, and from	feet to fee
	s were used from		feet to	, 🥕 feet,	, and from	feet to fee
Japie tool	:		DATES	3		4-
		, 19			lucing P & A J	
The p	production for the	he first 24 hours w	vas	arrels of	fluid of which	$\frac{e_C'}{c}$ was oil; $\frac{e_C'}{c}$
		and Cosedin			Gravity, <sup>9</sup> Bé.	The second second second second
	s well, cu. ft. pe		Cral	lons gase	dine per 1,000 cu	, ft. of gas
Rock	pressure, lbs. p	er sq. in.	TAKNI OV	pre		

Drilled by Mt. States Drilling Co., Inc.-Denver, Colo. Driller . , Driller

. Driller

		FORMA	TION RECORD			
FROM-	то-	TOTAL FEET		FORMATION	, marine . Peter . P	
		See Re	cord Attached			
1.0						

#### UNITED STATES DEPARTMENT OF THE INTERIOR BULLETIN 50 **GEOLOGICAL SURVEY** 14-2 CONSERVATION DIVISION INDIVIDUAL WELL RECORD Date December 18, 1952 PUBLIC LAND: Ref. No. \_\_\_1 Land office Salt Lake City Utah State. Serial No. 069312 Millard County \_ Lessee Gulf Oil Corporation, et al. Field Blehen Sart Operator Gulf Oil Corporation Salt Lake City District \_

Well No. \_\_\_1

Surface

Pilot Shale

(Miss.)

Drilling approved .....

Geologic Formations

Lowest tested

Chert

16 3.

R. 17 W.

MATEM

**Productive Horisons** 

.Depths

5768

9058

Subdivision

Location 8822.65 ft. S. and 11,455.88 ft. E. of NW Corner sec. 1,7.16 S.,R.18 W.

October 3 19 51 Well elevation

Completed for production \_\_\_\_\_\_, 19 \_\_\_ Gravity A. P. I. \_\_\_\_

Drilling commenced October 7 19 51 Total depth

Abandonment approved December 18, 19 52 Initial R. P.

Drilling ceased June 10 , 19 52 Initial production

S. L. Mer.

Contents

Dry Hole

WELL STATUS											
Jan.	FEB.	MAR.	APR.	MAT	JUNE	July	Aυσ.	SEPT.	Ост.	Nov.	DEC.
									Drg	Drg	Drg P&A
Drg	Drg	Drg	Drg	Drg	Abd						9058
										,	
	Jan.	JAN. FEB.	JAN. FEB. MAR.	JAN. FEB. MAR. APR.	JAN. FEB. MAR. APR. MAY	JAN. FEB. MAR. APR. MAY JUNE	JAN. FEB. MAR. APR. MAY JUNE JULY	JAN. FEB. MAR. APR. MAY JUNE JULY AUG.	JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEPT.	JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEPT. OCT.  Drg	JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEPT. OCT. NOV.  Drg Drg Drg Drg Abd

43-027-11476 OPERATOR TIGER OIL CO. REENTRY. eph



## Gulf Oil Corporation

CASPER PRODUCTION AREA

L. W. LeFavour
AREA PRODUCTION MANAGER
B. W. Miller
AREA EXPLORATION MANAGER

March 3, 1967

P. O. Box 1971 Casper, Wyo. 82601

The State of Utah
Oil & Gas Conservation Commission
348 East South Temple - Suite 301
Salt Lake City, Utah 84111

Re: Well No. Gulf Oil Corp. No. 1 Section 8, T 16S, R 17W Millard County, Utah

harlee

Miss Sharon Cameron

Replying to your letter dated February 28, 1967, requesting logs on subject well, we wish to advise that this well is located outside the area in which this office operates.

We are forwarding your letter to our Roswell, New Mexico, office for handling, and you should hear from them shortly.

Very truly yours,

R. O. Charles

EBH:rlk

cc: Gulf Oil Corporation P. O. Box 1938 Roswell, New Mexico



#### DRILLERS LOG

Gulf #1 Bishop Springs
Section 8-168-17W, Millard County, Utah

Depth	Lithology	<u>Formation</u>		
0 - 625	Shale & Siltstone	Pilot		
625 - 940	Inst, Sitst & Shale	Pilot		
9 <b>40 - 1295</b>	Dol, Imst & Siltstone	<b>Guilmette</b>		
1295 - 1900	Dol, Limestone	<b>Guilmette</b>		
1900 - 2000	Dol, Shale	<b>Guilmette</b>		
2000 - 2085	Dol , Shale	Pilot		
2085 - 2300	Interbed Imst & Shale	Pilot		
2300 - 3391	Interbed Imst & Dol	Guilmette		
3391 - 3675	Imst w/Shale & SS	<b>Guilmette</b>		
3675 - 4371	Interbed Dol & Imst w/Breccis	<b>Ouilmette</b>		
4371 - 4610	Inst & Shale	<b>Guilmette</b>		
4610 - 5268	Imst w/some Dolomite	<b>Guilmette</b>		
5 <b>268 -</b> 6000	Dolomite w/some Imst	Simonson		
6000 - 6770	Dolomite w/some Imst & SS	Sevy		
6770 - 7440	Dolomite & Chert at top	Laketown		
7440 - 8110	Dolomite w/Imst & Breccis	Simonson		
8110 - 8953	Dolomite w/some Siltstone	<b>Зот</b> у		
8953 - 9058	Dolomite w/Chert	Laketown		
9 <b>058</b>	TD			

MY 50 16E

### Gulf Oil Corporation

ROSWELL PRODUCTION DISTRICT

W. B. Hopkins DISTRICT MANAGER M. I. Taylor DISTRICT PRODUCTION MANAGER F. O. Mortlock DISTRICT EXPLORATION MANAGER

DISTRICT SERVICES MANAGER

H. A. Rankin

March 17, 1967

P. O. Drawer 1938 Roswell, New Mexico 88201

The State of Utah Oil & Gas Conservation Commission 348 East South Temple, Suite 301 Salt Lake City, Utah 84111

Re: Gulf Oil Corporation Bishop Springs No. 1, Section 8, T-16S, R-17W, Millard County, Utah

Gentlemen:

As requested in your letter of February 28, 1967, attached hereto please find Driller's Log, Electric Log and Radioactivity Log for subject well.

Yours very truly,

Attachments

BB:sz





### ENVIRONMENTAL ENGINEERING COMPANY

Professional Engineering Services

P. O. Box 3341 Casper, Wyoming 82601 Phone (307) 234-6186

1645 Court Place Suite 229 Denver, Colorado 80202 Phone (303) 892-1506

October 6, 1977

Mr. Ed Guynn, District Engineer U. S. Geological Survey 3440 Federal Building 125 South State Street Salt Lake City, Utah 84138

Re: Lease U-26743
E.M. Davis dba Tiger Oil
#1 - USA Bishop Springs, (An OWDD)
2629'FSL, 5130'FEL
Sec. 3, T 16S - R 17 W
Millard Co., Utah

Dear Ed:

As you requested, enclosed is application to drill (Form 9-331C) and surface use plan to re-enter the old Gulf well drilled in 1952, as above.

Two alternate locations will be filed separately after staking and examination is completed on the #3 well. An archaeologist has already been employed to examine all drill pad areas as well as all roads.

Since 1952 the old Gulf drill pad will only need slight enlargement for a deeper hole.

Would you kindly destroy the previous APD Form 9-331C sent you September 16, 1977 as it is no longer applicable.

Tiger Oil would like to commence operations in the old hole as soon as possible so therefore, I would appreciate an early approval to this request, and request ground inspection be waived if possible.

Please note that the old Gulf well is only 150' from the west line of Section 8. Tiger Oil owns the leases in Section 7 and the BLM owns all the minerals and surface. The nearest lease held by other parties is  $1\frac{1}{2}$  miles to the northwest.

Please send copy of this filing to the Fillmore, Utah office of the B.L.M.

Best Wishes!

George H. Fentress

GHF/da cc: Tiger Oil encl.

CONDITIONS OF APPROVAL, IF ANY:

(Other instruction on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES (Other ins reverse DEPARTMENT OF THE INTERIOR

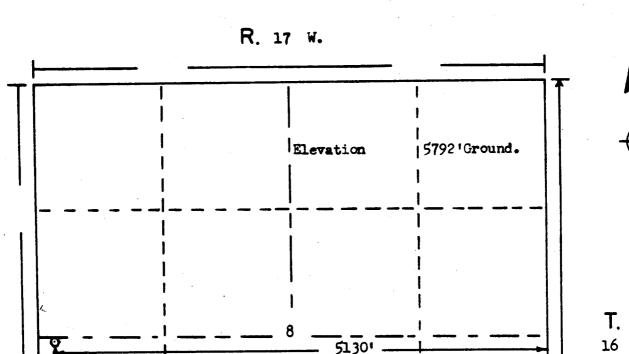
		I OF THE INT	ERIOR	-	5. LEASE DESIGNATION	AND SERIAL NO.
	<del></del>	GICAL SURVEY			UT-26	
APPLICATION 11. TYPE OF WORK	N FOR PERMIT	TO DRILL, DE	EPEN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
		DEEPEN 🗵	PLUG BAG	CK □	7. UNIT AGREEMENT N.	AME
b. TYPE OF WELL OIL [Y] G	AS 🗂					-
	TELL OTHER		SINGLE MULTIP		8. FARM OR LEASE NAM	
	Davig dha Tie	on Oil Compo			Federal 9. WELL NO.	
3. ADDRESS OF OPERATOR	Davis dba Tig	er Off Compa	.ny		#1-USA Bis	shop Spgs.
1920 Colorad	o State Bank B	ldg., Denver	. CO 80202		10. FIELD AND POOL, O	
4. LOCATION OF WELL (R At surface	eport location clearly and	in accordance with a	ny State requirements.*)		Wild	
	5130' FEL (re	-surveyed)			11. SEC., T., B., M., OR E	LK.
At proposed prod. zor		-sur veyeu)			AND SURVEY OR AR	· / ·
Same	*****				8-T16S-R17V	V
	AND DIRECTION FROM NEA				12. COUNTY OR PARISH	13. STATE
105 miles eas			iles W. of Delta,		Millard	Utah
15. DISTANCE FROM PROPE LOCATION TO NEARES: PROPERTY OR LEASE I	100-566	cover	. NO. OF ACRES IN LEASE		F ACRES ASSIGNED IIS WELL	
(Also to nearest drig	g. unit line, if any) 16	etter	2,559.00 ac.		80 acr	es
18. DISTANCE FROM PROF TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,	. 1	PROPOSED DEPTH	20. ROTAE	Y OR CABLE TOOLS	
21. BLEVATIONS (Show who		none	17,500'	<u> </u>	Rotary	Will amand
5792' Ground					Nov. 1	
23.	· · · · · · · · · · · · · · · · · · ·	PROPOSED CASING	AND CEMENTING PROGRA	<u></u>	1 1101. 1	1011
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMEN	
	13 3/8 new	54.5, J-55	522	425 5	x. reg. ceme	
12 1/4	9 5/8 new	36 # K-55			x. reg. ceme	
8 3/4			J-55 17,500		5x. 50-50 +	****
	l	1				. \
494-5441 and	Lingacka cem	erp. Hole, rel	move 4" marker, surface casing.	arili .	oo sacks ceme	- /14
2. Brill out	and ream the o	ld "heavy mu	d" in hole to OLI	TOTA	VI DEDTED	fix
90581 as ren	ortably bottom	ed in "chent"	a minore to Offi	7 1017	IL DEPIDOI	
			• -Cambrian and to	-a+ -11	ab : 1 -	
gas to that de	nth Set inter	nediste casin	g as set out abov	est all	snows of off o	r
			and tested period			
Exhibit Cand	#5 of Evhibit !	) on attached	Environmental N	ically a	as set out in	
			8 of Exhibit D of			
o. If off of g	as in commerc	tar or other t	quantities anticip	ated ar	e found, then	
casing will be	run as in 25 a	bove, in a 9-	inch hole as need	led to t	est or to	
			bits "A" through oint surface use,			
zone. If proposal is to oppose the proposal is to oppose the program, if any	drill or deepen directiona	lly, give pertinent dat	or plug back, give data on pro a on subsurface locations and	esent produ 1 measured	ctive sone and proposed and true vertical depths	new productive Give blowout
<sup>24.</sup> George I		Cons	sultant Represent	ative		
SIGNED HEN	Jel fortres	TITLE_	Tiger Oil Comp		DATE Octob	<u>er 6. 197</u> 7
(This space for Feder	ral or State office use)					
PERMIT NO.	027-11476		ADDROVA TATE			·
PREMITING			APPROVAL DATE			
APPROVED BY		TITLE _			DATE	

# EXHIBIT "A" Elevation & Location Plat

N

S.

Tiger #1-USA-Bishop Springs



52801

Powers Elevation Company, Inc. of Denver, Colorado has in accordance with a request from George Fentress for Edward Mike Davis(DBA) Tiger Oil Company determined the location of #1 Usa-Bishop Springs Section 8 Township 16 S. to be 2629'FS & 5130'FE Meridian Range 17 W. of the Salt Lake Principal County, Utah Millard

Scale ... I" = 1000'

I hereby certify that this plat is an accurate representation of a correct survey showing the location of #1 USA\*Bishop Springs

Date: <u>9-23-77</u>

Licensed Land Surveyor No.2711

Utah State of

# EXHIBIT "B". TEN-POINT COMPLIANCE PROGRAM of NTL-6 Approval of Operations

Attached to Form 9-331 C

Edward Mike Davis d/b/a/ Tiger Oil Company

#1 USA Bishop Springs (an OWDD)
2629' FSL 5130' FEL (or 7110'S 3300'E of NW/C 5-16S-17W)
Sec. 8 - T 16 S - R 17 W
Millard County, Utah

# Geologic Surface Formation

Quaternary alluvium and colluvium agglomerations of gravels resting on Mississippian Pilot shales.

# 2. & 3. Important Geologic Markers

Geologic Formation	Estimated Depth	Anticipated Fluids
Guilmette Fm. Simonson Dolo. Laketown Dolo. Simonson Dolo. (repeat) Eureka Sand. Pogonifs Group Notchpæk Orr Group Total Depth	625 5,265 6,770 7,570 11,000 12,500 14,500 17,400 17,500	water water oil oil
	•	

(Fluids anticipated only as noted)

# 4. Proposed Casing Program

A new and/or used casing program is specified in Item 23 of the attached A. P. D. Form  $9-331~\mathrm{C}$ .

# 5. Operator's Minimum Specifications for Pressure Control Equipment

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment planned for use in this well.

The BOP's will be hydraulically tested to full working pressure after nippling up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period. The blind rams and annula preventer will be checked each time pipe is pulled out of the hole. All testing will be recorded in the daily drill sheets.

Accessories to BOP's include upper and lower kelly cocks, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

# 6. Type and Characteristics of Proposed Circulating Medium

- (1) 0 5000' will clean out old 9.0 to 10.0# mud with water and a dispersed system to reach old T.D. with 10 cc W.L., 50-60 visc. and 9# mud to get job done. Probably will set intermediate casing here.
- (2) 5000' 17,500' will continue a dispersed system of (1) above except will have sufficient barite, lost circulation materials and additives to keep good mud and provide for any increased pressures or occurance of H<sub>2</sub>S gases, etc.

# 7. Auxiliary Equipment to be Used

- (a) A kelly cock will be kept in the string at all times.
- (b) A float may be used at the bit at all times.
- (c) A mud logging unit and gas detecting device may be used to monitor the system.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

# 8. Testing, Logging, and Coring Programs to be Followed

- (a) Testing is anticipated in the Notchpeak and Orr Group.
- (b) An IES log will be run from 17,500 to surface casing including Section to OTD for correlation purposes. FDC gamma ray, caliper and other logs will be run from 9058' to new Total Depth, and other logs as deemed desireable.
- (c) No coring is anticipated, but not precluded.

# 9. Anticipated Abnormal Pressures or Temperatures Expected

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area at the depths anticipated for this well, nor in the old hole.

Minor amounts of hydrogen sulfide gas was noted in the old hole but is not considered of consequence. However, protective materials, detectors and other equipment will be on location together with a contingency plan available if needed.

# 10. Anticipated Starting Date and Duration of the Operation

The anticipated starting date is set for November 1, 1977 and operations should be completed within three months from the spudding of the well to the 17,500' depth.

#### EXHIBIT "D"

# MULTIPOINT REQUIREMENTS TO ACCOMPANY APD

Attached to Form 9-331 C

Edward Mike Davis d/b/a Tiger Oil Company #1 USA Bishop Springs (An OWDD Well) 2629' FSL 5130' FEL Sec. 3 - T 16 S - R 17 W Millard Co., Utah

#### 1. Existing Roads

- A. The proposed well site and elevation plat are shown on Exhibit "A".
- B. The location is 105.5 miles east of Ely, Nevada, 134.5 miles west of Delta, or 44.5 miles northeast of Paved U.S. 6-50 as shown on Exhibit "E".
- C. Access is 8.0 miles from a county road and use of the old hole and drill pad will not requre any further road construction than now exists.
- D. This is a wildcat exploration well and all roads within three miles are on Exhibits "E" & "F".
- E. This is not a development well.
- F. The only plan for existing roads is to blade the no more than half dozen very small washed areas in the natural gravels on the surface of this area. All existing roads still have drainage bars on either side.

#### 2. Planned Access Roads

No new access roads are required for this location recommended.

- (1) The present width, with existing drainage is about 12 to 16 feet variable.
- (2) Maximum grades are 3 degrees.
- (3) No turnouts are necessary.
- (4) No drainage design different than now exists is planned. Small portions of the road exists in flat drainage channels where best travel conditions are found.
- (5) No culverts or cut-fill are planned.
- (6) One cannot improve upon the natural gravels existing on all roads, and off the roads.

- (7) No gates cattleguards or fence cuts are needed, as this is open range grazing BLM lands.
- (8) No new access will be built.

# 3. Locations of Existing Wells

All existing wells are shown on Exhibit "F".

- (1) There is one water well casing on the old well location. No others are known to exist within 10 miles.
- (2) The one abandoned well is planned for re-entry here.
- (3), (4), (5), (6), (7), (8), and (9) No other type of wells are known to exist in the area.

# 4. Location of Existing and/or Proposed Facilities

- A. (1), (2), (3), (4), (5), (6) There are no known or observed oil or gas production facilities or lines, buried or unburied.
- B. It is contemplated that production will be obtained. The production facilities are all located on the solid ground cut area of the drill pad, as shown on Exhibit "H".
  - (1) All facilities are planned for use on the newly leveled well pad.
  - (2) The dimensions of the facilities are drafted on Exhibit "H" as shown, and to approximate scale.
  - (3) There are plentiful surface gravels, but any sand or concrete used will be purchased from private sources.
  - (4) To protect livestock and wildlife, all pits with undesireable water or other fluids, and all moving parts will be fenced. If the fluid is unsafe, then flagging will be placed overhead. If oil, then a wire mesh covering will be placed over the oil collection pit, unless or until removed.
- C. Rehabilitation, whether the well is productive or dry, will be commenced on all unused areas in accordance with restoration plans presented in Item 10 following, and in accordance with other provisions made herein.

# 5. Water Supply

- A. Water will be obtained by either (a) cleaning out the old water well on location, or (b) purchase from the private owner of the 5 to 6 sec. ft. flowing Foote Reservoir, seen on Exhibit "F".
- B. Transportation of any water used will be by trucks on existing roads or by pipeline as shown on Exhibit "F"
- C. No water well is anticipated to be drilled; other than the one already existing for temporary use.

# 6. Construction Materials

A, B, C & D. No construction material is needed for drilling except as may have been noted previously. In the event of production, any materials needed are planned as purchase from pri vate sources.

# 7. Handling Waste Disposals

- (1) Drill cuttings will be buried in reserve pit.
- (2) Drilling fluids will be handled in the reserve pit.
- (3) Any produced fluids during drilling tests or while making production tests will be collected in a test tank. If a test tank is not available then any and all unavoidable spills of oil, salt waters or gases, or other obnoxious fluids will be cleaned up and removed immediately if and when that occurs.
- (4) Any sewage accumulated will be covered or removed.
- (5) Garbage, wastes and non-flammable wastes, salts and other chemicals produced or used during drilling operations or testing will be handled in the reserve pit or kept in the trash or burn pit, all shown on Exhibit "H". The trash or burn pit will be covered with small mesh wire to prevent scattering before being burned or buried.
- (6) The reserve pit, if mud is used, will be fenced on three sides during drilling operations, and iron or other posts and wire fencing will be available on location immediately upon cessation of drilling and the fourth side of the reserve pit will be fenced prior to full removal of the rig from the location. Any other dangerous or harmful pits or sewage areas will also be fenced or covered at the time rig moves off location.

# 8. Ancillary Facilities

No airstrips, camps, or other living facilities will be built or needed, unless significant production is obtained.

# 9. Well Site Layout

- (1) Exhibit "G" is the drill pad layout. Elevation contours have been drawn on the plat, and cross sections drawn from these contours. Soil banks are noted on the sections.
- (2) Exhibit "H" shows the orientation of the drill rig, reserve pit, mud tanks, parking, soil bank locations, and other information. If a test tank is used, it will be as shown on the lay-out.

  No living facilities are anticipated, except temporary trailers.
- (3) Exhibit "H" shows rig orientation, parking and road in to drill pad.
- (4) The reserve pit will not be lined. Steel mud pits, if used, will be as shown in Exhibit "H".

# 10. Plans for Restoration

- (1) Backfilling, leveling and contouring will be accomplished as soon as possible after plugging of the well, or immediately on those areas unused if production is obtained. Waste disposal and spoils materials will be buried or hauled away immediately before rig moves off location.
- (2) Rehabilitation will be accomplished by spreading the banked top soil over the area and contouring the banks. Revegetation will be accomplished using grasses or mixtures best suited for the conditions encountered here. The access road will be revegetated as needed, but it may be preserved for continued use if requested.
- (3) Prior to rig release, the fourth side of the reserve pit will be fenced and maintained until clean up operations are finished.
- (4) Any oil or spills will be immediately cleaned up or flagged.
- (5) Rehabilitation operations will commence as soon as the rig moves off location. Removal of oil or flagging, fencing and other clean up will begin immediately.

Planting and revegetation will be considered as best commenced beginning in the spring of 1978, unless requested or recommended otherwise.

# 11. Other Information

(1) The topography is an almost typical "sheepherder's anticline" basinal area covered heavily a with Quaternary gravels, alluvial and colluvial, spread everywhere except for the up turned cliffs to the east and west of harder Ely limestone.

There is sparse soil, as with the vegetation of 10% to 40% straw flowers, native grasses, and almost nothing except sand and gravels. No animals were seen, although small holes were occasionally found. The location itself already flattened from previous drilling, showed nothing peculiar to indicate animal or bird problems, although sheep, cattle and other animals and birds obviously exist in various amounts in this sparsely inhabitated area.

- (2) The surface ownership is BLM and is used for grazing.
- (3) The closest dwelling is at Gandy some 15 miles away. Corrals exist at 8.0 miles from location on the county road exit. The area is to be examined archaeologically entering the 7.2 miles into the area of all locations being staked and exiting on a road southwestward to make certain no disturbance of such features will occur. No historical or cultural sites were seen anywhere near the entire area.

The closest flowing water is the Bishop Springs area seen on Exhibit "F" where the Foote Reservoir was constructed to impound the 5-6 sec. - feet of water flowing up from the bottom of the valley and out of the reservoir into a series of irrigation ditches.

or

# 12. Lessee's or Operator's Representative

George H. Fentress
CONSULTANT Representative
Edward Mike Davis, d/b/a
Tiger Oil Company
1645 Court Place, #229
Denver, Colo. 80202
Phone: (303) 825-0561
Res. (303) 279-4880

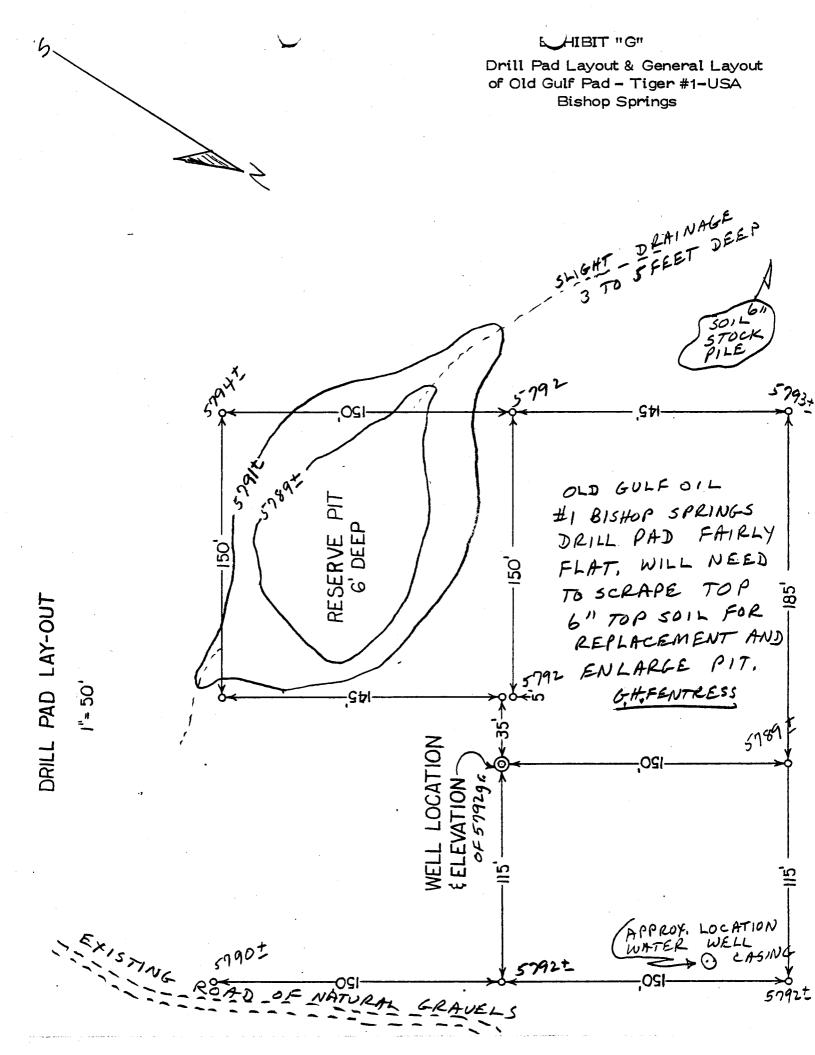
Richard Schneider
R. A. 'Pete' Matuszczak
Edward Mike Davis, d/b/a
Tiger Oil Company
Manager of Exploration
1920 Colorado State Bank Bldg.
Denver, Colo. 80202
Phone: (303) 629-0391
Res: (303) 934-1656

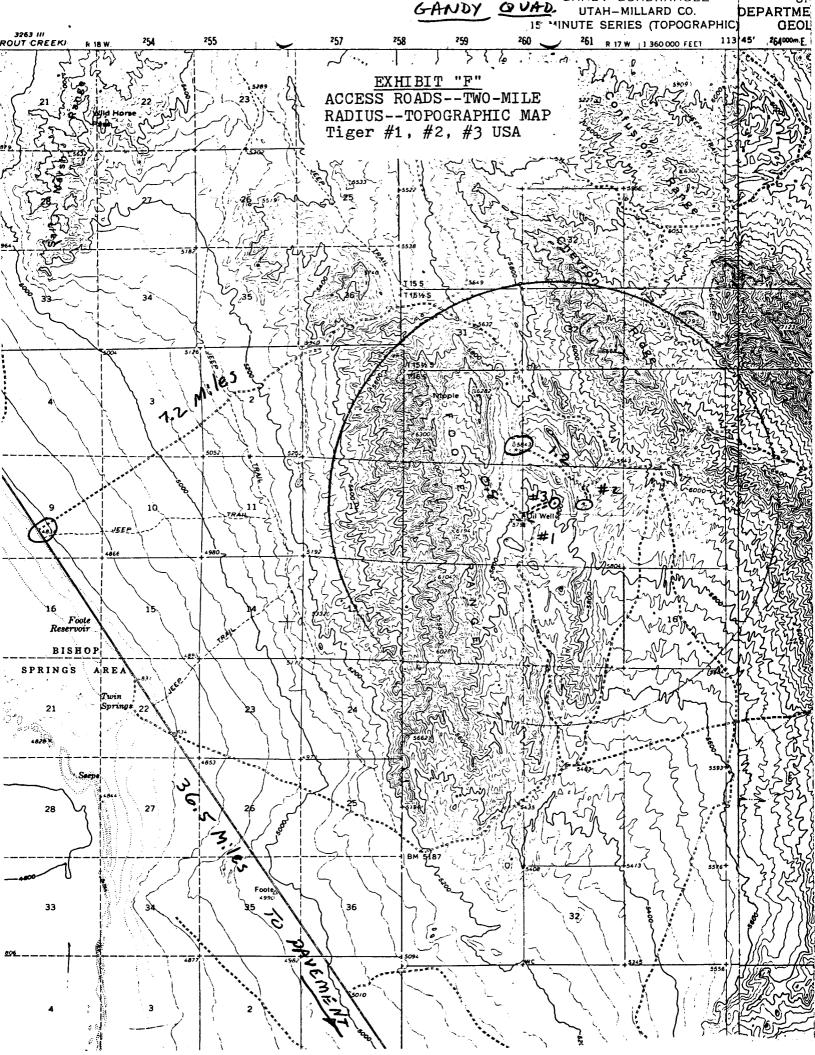
# 13. Certification

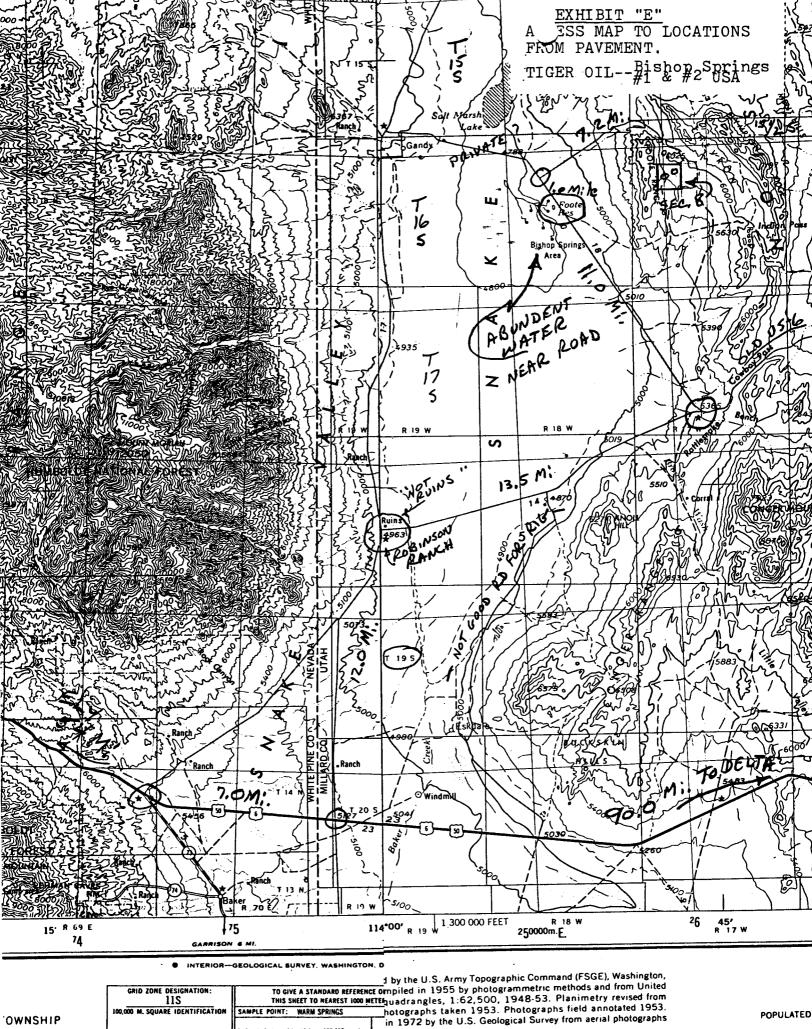
I hereby certify that I, or persons under my direct supervision have inspected the drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Edward Mike Davis, d/b/a Tiger Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

	October 6,	1977
Date		

George H. Fentress
Consultant Representative for
Edward Mike Davis d/b/a
Tiger Oil Company



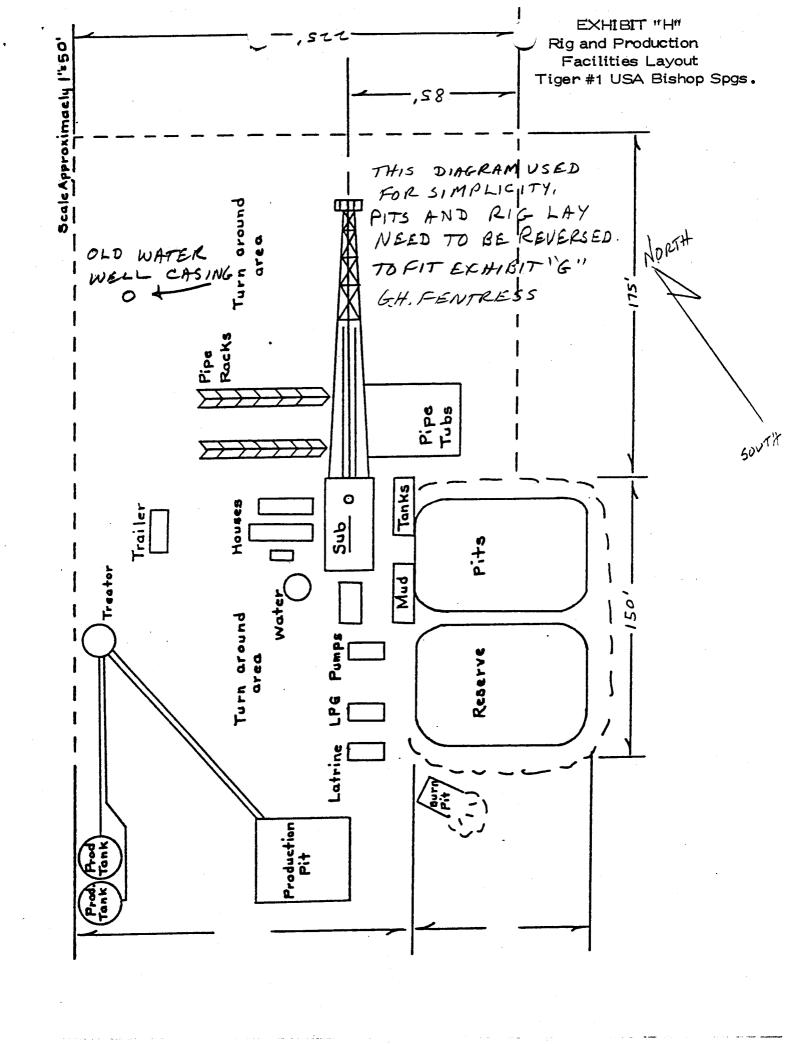




NQ 1

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Over 500,0



STATE OF UTAH DIVISION OF OIL, GAS AND MINING

- Le-Cutty

# \*\* FILE NOTATIONS \*\*

pe entry

October 26, 1977

Edward Mike Davis dba Tiger Oil Company 1920 Colorado State Bank Bldg. Denver, Colorado 80202

> Re: USA Bishop Springs #1 Sec. 8, T. 16 8, R. 17 W, Millard County, Utah

#### Gentlemen:

Insofar as this office is concerned, approval to re-enter and deepen the above referred to well is hereby granted.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer HOME: 582-7247 OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the rig number and drilling contractor be identified.

The API number assigned to this well is 43-027-11476.

Bery truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT DIRECTOR Form 9-331 C (May 1963)

# UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

5.

•	LEASE	DESIGNAT	ION	AND	SERIAL	NO.	
		TITT	20	77.4	9		

	GEOLG	OGICAL SURV	ΕY		X	UT-267	43
APPLICATION	V FOR PERMIT	TO DRILL,	DEEP	N, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE (	R TRIBE NAME
1a. TYPE OF WORK							
DRI		DEEPEN	X	PLUG BAC	:К 🔲 📗	7. UNIT AGREEMENT NAM	( <b>E</b>
b. TYPE OF WELL OIL (TY) G.	AS C		SI	NGLE MULTIP		S. FARM OR LEASE NAME	<u> </u>
WELL W	ELL OTHER			NE ZONE			
2. NAME OF OPERATOR	Davis Ala Min	Oil C				Federal 9. WELL NO.	
Edward Wike	Davis dba Tig	er Oil Com	ipany	,		#1-USA Bish	on Sngs.
•• •••	o State Bank B	Ida Dony	on (	20 20202		10. FIELD AND POOL, OR	
4. LOCATION OF WELL (R						Wildo	
At surface						11. SEC., T., R., M., OR BL	
	5130' FEL (re	-surveyed)				AND SURVEY OR AREA	<b>\</b>
At proposed prod. zon	.e	•				8-T16S-R17W	•
Same	AND DIRECTION FROM NE.	AREST TOWN OR POS	T OFFICE	J.		12. COUNTY OR PARISH	
105 miles eas	st of Elv. Neva	da (or 134	mile	s W. of Delta.	UT)	Millard	Utah
15. DISTANCE FROM PROPO LOCATION TO NEAREST	150'-se	e cover	16. NO	s W. of Delta,	17. NO. 0	F ACRES ASSIGNED	
PROPERTY OR LEASE I (Also to nearest drig	LINE, FT.	etter	1	2,559.00 ac.	10 11	80 acre	es
18. DISTANCE FROM PROP	USED LOCATION*		19. PR	OPOSED DEPTH	20. ROTAL	BY OR CABLE TOOLS	······································
TO NEAREST WELL, D OR APPLIED FOR, ON TH		none	1	7,500'		Rotary	•
21. ELEVATIONS (Show who			· · · · · · · · · · · · · · · · · · ·		·	22. APPROX. DATE WORK	
5792' Ground	by Powers					Nov. 1,	1977
23.		PROPOSED CASI	NG ANI	CEMENTING PROGRA	M		-
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	'00T	SETTING DEPTH		QUANTITY OF CEMENT	
	13 3/8 new	54.5, J-5	5	522	425	sx. reg. cemer	nt
12 1/4	9 5/8 new	36 # K	<u>- 55</u>	5,000	400 5	sx. reg. cemer	nt
8 3/4	5 1/2 new	20#-17#-1	5#_J	<sup>55</sup> 17,500		sx. 50-50 +	
1. Re-enter	old Gulf Oil C				drill	35 sacks ceme	nt
	l 10 sacks cem						
				in hole to OLI	тот.	AL DEPTH of	
	ortably bottom	*					
	-			ambrian and to	est all	shows of oil or	•
				as set out abov		DITOWN OF OUR OF	
•	-		_	d tested period		na act out in	
-				-	-		
				nvironmental I			
	~			of Exhibit D of			
_				antities anticip			
casing will be	run as in 23	above, in a	9-in	ch hole as need	ded to	test or to	
produce antic plat. 10-point	ipated product program, B.	ion Ex O.P., mul	xhibii tipoi	s "A" through at surface use,	"H" as	re attached giv ss maps, rig ar	ing location id
IN ABOVE SPACE DESCRIBE zone. If proposal is to preventer program, if an	drill or deepen direction	proposal is to deep ally, give pertinen	pen or p t data o	lug back, give data on pr n subsurface locations an	esent prod d measured	uctive zone and proposed I and true vertical depths.	new productive Give blowout
24 C 1			<u> </u>	Hant Danne	L = 4		

George H. Fentress signed Fentress	Consultant Representative Tiger Oil Company	DATE October 6, 1977
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
APPROVED BY ORIG. SGD.) E. W. GUYNN	DISTRICT ENGINEER	DEC 2 7 1977

Comps ite proposed in See 6.

NOTICE OF APPROVAL

\*So

Division of Oil, Gas, and Mining 1588 Wast North Temple

\*See Instructions On Reverye Siden 84116

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH
TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well Location
Tiger Oil Company 2,629 FSL-5,130 FEL, Sec. 8,7165 UT-26743 No. 1 - USA RITW, SLM, Millard Co., Utah Stratigraphy and Potential Proposed TD of 17,500 feet will collar in gravel Oil and Gas Horizons. and test the Cambrian (Notchpenk & One Group). for vila Critical tops are predicted at: 620 - Guilmette Fm; 5,260 - Simonson Dolo; 11,000 - Eureka SS; 12,500 - Pogonip Group; 14,500 - Notchpeak Fm; 17,400'- On Group; 17,500'- Gasement (?) pretambian. 2. Fresh Water Sands. No data. Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.) Mone 4. Possible Lost Circulation Zones. no data but several should be anticipated. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. Insufficient data Possible Abnormal Pressure Zones Only normal or subnormal to the depths involved  $\geq T_{i}P$  conditions are and Temperature Gradients. and to the likely. Hydrogen sulfide gas encountered in old hole. Competency of Beds at Proposed Probably adequate for the APD casing program Casing Setting Points. Additional Logs or Samples Needed. APD logging program is adequate to define the leasable minerals likely to be penetrated.

Date: 10-18-77 Signed: Donald C. Alvord

9. References and Remarks U.S.G.S. Files, Salt Lake City, Utah. Hole is located less than 2 miles east of prospectively valuable Souther Valley genthemal resource area

SUMMARY OF ENVIRONMENTAL IMPACT EVALUATION EIA NO. 753 ATTACHMENT 2-A DATE Oct 20.1977 OPERATOR Trace O.L Drilling Transport LEASE # UT 26743 Construction **Pollution** Production Others Operations Accidents WELL NO. # 1-USA Bohop Spis Others (toxic gases, noxious gas, etc. LOC. YNW 45W SEC. 8 Fluid removal (Prod. wells, facilities) Others (pump stations, compressor stations, etc. Noise or obstruction of scenic views Mineral processing (ext. facilities) T. 165 R.17W COUNTYMILLAS STATEUT Burning, noise, junk disposal Transmission lines, pipelines Liquid affluent discharge FIELD Wildcat Dams & impoundments USGS EVANS dirpor! Subsurface disposal Socondary Recovery Operational failure BLM Hir schi Spills and leaks REP: Fentress Roads, bridges, THE LOWSON ENHANCES Well drilling 0 Pipelines NO IMPACT Trucks Others Others MINOR IMPACT MAJOR IMPACT NA Forestry Grazing Wilderness NA Agriculture JA. Residential-CommercialsA Mineral Extraction 10 Recreation Scenic Views Parks, Reserves, Monuments NA Historical Sites Unique Physical Features / Birds Land Animals Fish Endangered Species nove known Trees, Grass, Etc. Surface Water Underground Water E Air Quality Erosion' Other Effect On Local Economy 0 δ Safety & Health Others

MAMMA L BIRDS [	ENDANGERED SPECIES	OTHER Reptil	e5	
NO MOMM	uls were spotled			
		·		
	<del>                                     </del>	LIVESTOCK GRAZING		
MINING LIND	USTRIAL RESIDE	NTIAL  OIL & GA	AS OPERATIONS	
AREA- 13 USE	o for sheep bro	-3110-3	<del></del>	
	· · ·		· · · · ·	
	·			•
REF: BLM UMBRELLA E USFS EAR	AR		•	
USFS EAR				
OTHED ENVIDONM	ENTAL ANALVOTO			
OTHER ENVIRONM	•			
• •	•	tion (potential imp	eact)	
3. Effects on Environments  1) EXHAUST EMIS	onment by Proposed Ac	ING RIG POWER UNITS	AND SUPPORT TRAFFIC	
3. Effects on Enviro	onment by Proposed Ac	ING RIG POWER UNITS	AND SUPPORT TRAFFIC	
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3. Effects on Environment 1) EXHAUST EMISSIONES WOULD ADD MINOR INDUCED DISTURBANCE AND SUPPORT OF MINOR VISUAL SURFACE DISTURBANCE.  4) TEMPORARY DISTRACTOR OF MENOR DISTRACTOR OF MENOR DISTRACTOR OF MENOR OF	SIONS FROM THE DRILL NOR POLLUTION TO THE D AND ACCELERATED ERCORT TRAFFIC USE.  IMPACTS FOR A SHORT  STURBANCE OF WILDLIFE CTION FROM AESTHETICS	ATMOSPHERE IN THE LESSION POTENTIAL DUE  TERM DUE TO OPERATI  AND LIVESTOCK.  FOR SHORT TERM.	AND SUPPORT TRAFFIC OCAL VICINITY.  TO SURFACE  ONAL EQUIPMENT AND	
3. Effects on Environment of the composition of the	ENOUNCE OF WILDLIFE	ATMOSPHERE IN THE LOSION POTENTIAL DUE TERM DUE TO OPERATI	AND SUPPORT TRAFFIC OCAL VICINITY.  TO SURFACE  ONAL EQUIPMENT AND	

4. Alternatives to the Proposed Action
1) Not approving the proposed permit The OIL AND GAS LEASE GRANTS THE
LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL
OIL AND GAS DEPOSITS.
2) Deny the proposed permit and suggest an alternate location to minimize
ENVIRONMENTAL IMPACTS. NO ALTERNATE LOCATION ON THIS LEASE WOULD JUSTIFY THIS
ACTION.
JOCATION WAS MOVED TO V door to NE TO AVOID and old Mudpits  LARGE SIDEHILL CUTS NATURAL DRAINAGE OTHER AND doll pad to be 350x400  to accomadate Large rig (Tiges: souned)  4) At the site, due to remotoress a temporary comp with cooking t Living with and Saintern facilities was requested. Ioo'x 200' AREA Adjanest to doll pad or NE corner. The need for proper sewage disposal was discussed (over)  5. Adverse Environmental Effects Which Cannot Be Avoided  1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.
2) MINOR INDUCED AND ACCELERATED FROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE,
3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.
4) TEMPORARY DISTURBANCE OF LIVESTOCK.
5) MINOR AND SHORT-TERM VISUAL IMPACTS.
6)
6. DETERMINATION:  (THIS REQUESTED ACTION (DOES) (DOES NOT) CONSTITUTE A MAJOR FEDERAL ACTION SIGNIFICANTLY AFFECTING THE ENVIRONMENT IN THE SENSE OF NEPA, SECTION 102(2) (C).  DATE INSPECTED 10/20/7)
U. S. GEOLOGICAL SURVEY  CONSERVATION DIVISION - OIL & GAS OPERAT  SALT LAKE CITY DISTRICT

It was my free sigs that the waste could be received to existing sewage facilities or disposed of one site in a septic tank or other suitable means. MR Fentress would be agreeable to one suggestions or make a suggestions for our approval, such as covered pit (resspect) to be remed buried upon Abrustonment, Due to the Temporary weed for Camp, a cesspect treated with chemical prior to Abandonment may be all that is needed.

The size should be the Large enough to contain fluid and constructed in such away not to be a BAZARd.

Additional inputs

11/25/77

On NOV 17, And ON site inspection was made for Bishop Springs #2 \$3. THE OPERATOR was agreeable to moving proposed (Amp to SESSE) soc 6, The original site would present possible Hazards to mentequipment due to proximity of camp to trill site. Subject to BLM Approval (OTAL given at onsite) the site could be moved to see 6 and would Lessen any potential hazards to men a equipment. The site is level, would require only devegitation for parking & Storage. The site should be able to be revegitated after use as old drill site has had natural revegitation (Ref. Sunday Notice Nov18,77-





May 4, 1978

MEMO TO FILE:

Re: Tiger Oil Company
Well No. Bishop Springs Unit #1
Sec. 8, T. 16S., R. 17W.
Millard County, Utah

A visit was made to the above proposed drillsite. As of this time, no rig has moved in, yet all the necessary location work has been completed.

PATRICK L. DRISCOLL CHIEF PETROLEUM ENGINEER DIVISION OF OIL, GAS, & MINING

PLD/ksw

\_

Form 9-331 (May 1963)	Ul ED STATES	SUBMIT IN TRIL ATE	Form approv	ed.
DEPAR	TMENT OF THE INTER	RIOR (Other instruction) on re-	5. LEASE DESIGNATION U-26743	au No. 42-R1424. AND SERIAL NO.
CUNDOV NO	GEOLOGICAL SURVEY	ON WELLC	6. IF INDIAN, ALLOTTE	OR TRIBE NAME
	OTICES AND REPORTS  oposals to drill or to deepen or plug  JCATION FOR PERMIT—" for such			•
1.	TOATION FOR FEITHIT— TO SUCH	proposais.)	7. UNIT AGREEMENT NA	AME ()
OIL GAS WELL OTHER  2. NAME OF OPERATOR	t .		Q TANK OF TRICE WAY	
dward Mike Davis d,	/b/a Tiger Oil Com	np <b>any</b>	8. FARM OR LEASE NAME FEDERAL	4.M
3. ADDRESS OF OPERATOR 1920 Colorado State	Bank Bldg., Denve	er, Colo. 80202	9. WELL NO. #1-USA Bis	hop Springe
4. LOCATION OF WELL (Report location See also space 17 below.) At surface	on clearly and in accordance with an	ny State requirements.*	10. FIELD AND POOL, O wildcat	R WILDCAT
2629 FSL 5310 FE	L (re-surveyed)		11. SEC., T., B., M., OR I	
14. PERMIT NO.	15. ELEVATIONS (Show whether 5792 ground		12. COUNTY OR PARISH	13. STATE Utah
16. Check	Appropriate Box To Indicate	Nature of Notice, Report, or C	Other Data	
NOTICE OF IN	TENTION TO:	SUBSEQ	UENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING V	VELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CA	ASING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDONME	NT*
(Other) Status Repo	CHANGE PLANS	(Other)(Note: Report results	of multiple completion letion Report and Log for	on Well
17. DESCRIBE PROPOSED OR COMPLETED proposed work. If well is dire nent to this work.) *	OPERATIONS (Clearly state all pertinectionally drilled, give subsurface locality drilled, give subsurface locality drilled, give subsurface locality drilled, give subsurface locality drilled, give subsurface locality drilled drill			<del></del>
his Sundry notice	is filed with U.S.	G.S., B.L.M., Utah	Div. 0&G Mi	ning
hat Operator has be				
ig in shape to move			•	_
he location within			-	
or a cooler weather		Own most orsold for out in	THE GEORGE	10#
hould there be any	problems with thi	s <b>extenti</b> on. nless	a notify:	
eorge H. Fentress,			•	
. 0. Box 113. Wheat				270_4220
ince the Denver Off		migur not have an	SWELS TO CON	ultions,
or have the files i	.n the matter.			
		J	(3)1110)	
		/%	Y SUED	\
			DFCF101 1978	<i>ব্ৰ</i>
18. I hereby certify that the foregoing	o lettrue, and correct	ofessional Geologi	المستحدث فالله	
signed derive that the lorest		ent Representative		1, 1978
(This space for Federal or State	office use)		N. Au	7

TITLE \_

APPROVED BY \_\_\_\_\_\_\_ CONDITIONS OF APPROVAL, IF ANY:

#### GEORGE H. FENTRESS

Professional Geologist & Engineer

Off: Box 113 (3726 Pierce) Well Site Geology

Wheat Ridge, Colo. 80033 Well Completions

(303) 423-0835 Res: 14600 Foothill Rd. O. & G. Operations

Golden, Colo. 80401

Evaluations & Prospects Environmental Impacts (303) 279-4880

#### **GEORGE H. FENTRESS**

mail all correspondence to:

OFFICE

**GEOLOGICAL ENGINEER** 

Residence 14600 Foothill Road Golden, Colorado 80401 Phone (303) 279-4880

P.O. Box 113 Wheat Ridge, Colorado 80033 Phone (303) 423-0835

November 17, 1978

Ed Guynn, Distr Engr U. S. Geological Survey 8440 Federal Bldg.

Salt Lake City, Utah 84138

RE: Lease U-26743

E. M. Davis, d/b/a Tiger Oil

#1-USA Bishop Springs -M 2629' FSL 5310' FEL - Sec. 8-16S-17W

in Millard Co., Utah

an OWDD.

Dear Mr. Guynn:

On August 1, 1978 I filed with your office Form 9-331 as a status report to extend the application to drill the above well.

CIRCULATE TO:

PETROLEUM ENGINEER \_\_\_\_ MINE COORDINATOR \_\_\_\_\_ ADMINISTRATIVE ASSISTANT.

DIRECTOR \_\_\_\_\_

I am advised by Tiger Oil Company that they will be on location January or February, 1979.

They have been building a rig in California and it has taken considerably longer than they anticipated.

If there is any problem with this extension of time, please advise me.

George/H. Fentress

Agent Representative for

Tiger Oil Company

Utah Div. 0&G&Mining cc.

B.L.M. Fillmore

Harvey German, Area Mgr. Tiger

class of the sky of the



#### UNITED STATES DEPARTMENT OF THE INTERIOR

Form 9-331 C (May 1963)  UNITED STA	ATES	UBMIT IN TR (Other instruc reverse sign	tions on	Budget Bureau No. 42-R1425.
GEOLOGICAL S				5. LEASE DESIGNATION AND SERIAL NO. UT-26743
APPLICATION FOR PERMIT TO DRI	LL, DEEPEN, OI	R PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
DRILL DEEP	PEN 🗵	PLUG BAC	:к 🗆 📗	7. UNIT AGREEMENT NAME
OIL GAS WELL OTHER	SINGLE ZONE	MULTIPI ZONE	E	8. FARM OR LEASE NAME
2. NAME OF OPERATOR . M. Davis d/b/a Tiger Oil Con	nany			Federal
, , , , , , , , , , , , , , , , , , , ,				#1 USA Bishop Spring
3. ADDRESS OF OPERATOR C/O George H. Fent			ŀ	10. FIELD AND POOL, OR WILDCAT
. O. Box 113, Wheat Ridge, Cold	ace with any State requi	rements.*)		Wildcat
2629 FSL 5130' FEL (re-surve	yed)		ľ	11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zone				8-T16S-R17W
Same 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN	OR POST OFFICE*			12 COUNTY OF PARISH   13 STATE
miles east of Ely, Nevada, or		of Del	ta. Ut	Millard Utah
15. DISTANCE FROM PROPOSED*	16. NO. OF ACRE		17. No. 0	F ACRES ASSIGNED HIS WELL
PROPERTY OR LEASES LINE, FT. (Also to nearest drig. unit line, if any)	2,559.0	0	10 11	80-acres
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED,	19. PROPOSED DE			RY OR CABLE TOOLS
OR APPLIED FOR, ON THIS LEASE, FT. NONE	17,500	) <b>'</b>	ro	otary
21. ELEVATIONS (Show whether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START*
5792' ground by Powers				May 12, 1979
PROPOSED	CASING AND CEMEN	TING PROGRA	M	
		ING DEPTH	100	QUANTITY OF CEMENT
13 3/8" new 54.5	K-55 5,0	22		sx reg. cement
$83/4$ " $5\frac{1}{2}$ " new $20\#-1$	7# N-80 17	7,500	500 s	x 50-50 Posmix
<ol> <li>Re-enter old Gulf hole, rem</li> </ol>				
2. Ream old hole of heavy mud	to old total	. depth	of 9,0	158'.
<ol> <li>Drill hole to 17,500' to Pr</li> <li>B.O.P's will be installed a</li> </ol>	nd tested as	ina test	all S t in F	Exhibit "C" and #5 of
Exhibit D of previously sub				
5. Electric logs will be run a	ls noted in #	$^{4}8$ of Ex	hibit	D of NTL-6.
	as is found	economi	cally,	, then casing will be
run as above. The intermid				
run, provided the hole as r	eamed is in	bad con	ditior	n, or as approved.
<ol> <li>All Exhibits "A" through "Fapproved, including 10-poir</li> </ol>	t were attac	ned to	multir	noint surface use
access maps, rig and drill	pad lavouts	Suppl	ementa	al plans were proposed
in the event a camp was to				T. I. I. I. Fe a Fe a Good
8. This Form is re-filed to de		inued p	lan to	drill well.
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is zone. If proposal is to drill or deepen directionally, give p preventer program, if any.	to deepen or plug back. ertinent data on subsurf	give data on prace locations ar	resent production description	uctive zone and proposed new productive land true vertical depths. Give blowout
24. George H. Fentress A	gent Represe	ntative	for	
				February 13, 1

The intermidiate string of casi run as above. run, provided the hole as reamed is in bad con All Exhibits "A" through "H" were attached to approved, including 10-point program, B.O.P., access maps, rig and drill pad layouts. Suppl in the event a camp was to be used. 8. This Form is re-filed to designate continued p IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on p zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations of preventer program, if any. 24. Geor Fentress Agent Representative ge H. Tiger Oil Comp (This space for Federal or State office use) APPROVAL DATE \_ PERMIT NO. DATE \_ APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:

**GEORGE H. FENTRESS** 

mail all correspondence to:

OFFICE P.O. BOX 113 Wheat Ridge, Colorado 80033 3726 Pierce St., Suite #207 Phone (303) 423-0835

GEOLOGICAL ENGINEER

Residence 14600 Foothill Road Golden, Colorado 80401 Phone (303) 279-4880

February 13,

Bill Martens, Ass't Distr. Eng'r U. S. Geological Survey 8440 Federal Bldg. Salt Lake City, Utah 84138

RE: Tiger Oil Co. #1 USA Bishop Springs Sec. 8-16S-17W Millard Co., Utah Lease U-26743

Dear Bill:

As discussed with you by phone today, I enclose a revised up-dated copy of Form 9-331C on the above well, together with the Archeological report covering wells #1, #2, and #3, and other data.

You have advised that this 9-331C should be filed every 90-days in order to keep the drilling intention open. Therefore, in the event Tiger Oil is not on location on or before May 13, 1979, I or someone shall file another report, such as this.

I further appeciate your clarification that Form 9-329-1 is only filed monthly "after the well has spudded". That Form 9-331 Sundry Notices is filed "only if there is a change in plans or operations". And, that Form 9-331C is filed with your Salt Lake City Office with the NTL-6 reports, and 'every 90-days thereafter until drilling operations have commenced". Some of these filings are slightly different from other offices and I wished to clarify this herewith.

Should you need any other information relative to the delay in commencement of operations by Tiger Oil, Please so advise me. It is unfortunate that a drilling rig has merely not been available for this commencement.

Best wishes

George H. Fentress Agent for Tiger Oil

Ed White, Tiger Oil, Houston cc. Utah State Div. Oil & Mining February 25, 1980

Tiger Oil Co. George H. Fentress P.O. Box 113 Wheat Ridge, Colorado 80033

> Re: Well No.Bishop Springs #1 Sec. 8, T. 16S, R.17W Millard county, Utah

#### Gentlemen:

In reference to above mentioned well, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill this well, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill this well and action will be taken to terminate the application. If you plan on drilling this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

brice Salist

JANICE TABISH CLERK TYPIST

\* TIGER OIL INFORMED THIS
DIVISION ON 2-28-80 that they
INTEND ON SPUDDING IN JULY, 80



March 11, 1980

State of Utah Dept. of Natural Resources Div. of Oil, Gas, and Mining 1588 West North Temple Salt Lake City, Utah 84116

Attn: Janice Tablish Clerk Typist

Ref: Well No. Bishop Springs #1

Sec. 8, T16S, R17W Millard County, Utah

Dear Janice:

Just received your letter concerning the permit to reenter and drill deeper the subject well. We still have plans to drill the well, but are further delayed on rig availability. Request an extension on the permit to July 6, 1980, so it will be compatible with our present Federal Permit.

Sincerely yours,

E. H. White Chief Engineer

MAR 1 4 1980

DIVISION OF OIL, GAS & MINING

EHW:dfs

# SUPPLEMENTARY NOTICE

			NI LICE ONLY
		FOR DIVISIO	ON USE ONLY FORMS
U.S.G.S.		BOND	114 121
8440 Federal Bldg.	Ī		
125 So. State St.	L		
Salt Lake City, Utah 84138			•
A notice to you dated June 4,			ng the intention to
deepen, Well No.1-1	JSA Bishop Spr	<u>ing</u> ,SAPI No	),,
(Drill, rework, abandon) Sec. 8 , T. 16S , R. 17W , S.L. B. &			Field,
	y, should be amended		hanged conditions.
Utah	y, 5110010 DV 111111111111111111111111111111		•
The present condition of the well is as follows:			
Total depth 9058 '		•	·
Complete casing record including plugs and perforations:			
13 3/8" - 54#, J-55 C. @ 522' w/bad Cmt. plug from 494' - 544'.	pipe @ 60'.		CATIVISIO
APPROVED BY THE DIVISION OF OIL, GAS, AND MINING	·	M	AY 5 1980
DATE: 5-22-80		O" [	DIVISION OF
BY: M.J. Minker		OIL,	GAS & MINING
We now propose			
1. Clean out to 542' & mill out bad	<u>13 3/8"</u> @ 60'.		•
2. Run 9 5/8", 40#, S-95 & N-80, LT&			
3. Cmt. 9 5/8" to bring cmt. to surf			
			gi.
4. C.O. cmt. to 20' above shoe & tes		,0 1000 p	~.
5. C.O. cmt., shoe & old hole to 905			
6. Drill new 8 3/4" hole as per appr	oval of July 6	, 1979.	
It is understood that if changes in this plan become	ne necessary we are t	o notify you	immediately.
Address P.O. Box 3130	Edward Mike I	)avis/DBA	Tiger Oil Co.
(Street)		(Name of Offrator	
Ventura Calif. 93006 (City) (State) (Zip)	By le Kuya	Alla	(Date)
(City) (State) (Zip) Telephone Number (805) 644-8261	Type of Organization	Indi	vidual
Rig Ph. # 1-702-234-7302	TAPO OT OTHER	(Corporation, P	artnership, Individual, etc.)

cc: Ed White & Stah Div. of Oil, Gas & Mining.

25725 A.M.GSRI-SM)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

φ υBudget Bureau No <sub>x</sub> 43–91424	
5. LEASE NEGO S 368	
บ.ร. 0693) 2 🚆 🚆 🚆	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
84 2 0 8 3 2	
7. UNIT AGREEMENT NAME	
်းပြည်တွင် ရှိသည်။ သည်	
8. FARM OR LEASE NAME 2 28 3	
1 SARAN O MOS	
1 9. WELL NO. ***** ###	
10. FIELD OR WILDCAT NAME	
<u> </u>	
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G-Poz + 2% gel 3 0.6% HR 7 to	
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SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)	7. UNIT AGREEMENT NAME TO THE STATE OF THE S
reservoir. Use Form 9–331–C for such proposals.)	8. FARM OR LEASE NAME 및 의심 등 기업 등 기업 등 기업 등 기업 등 기업 등 기업 등 기업 등 기
1. oil gas other Wildcat	
2, NAME OF OPERATOR	Bishop Springs #1 # # # # # # # # # # # # # # # # # #
E. M. Davis - DBA <u>Tiger Oil Co.</u>	10. FIELD OR WILDCAT NAME A A A
3. ADDRESS OF OPERATOR Houston	THE RESERVE THE PROPERTY OF TH
Suite 1500 Greenway Plaza East Texas	11. SEC., T., R., M., OR, BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA SARA SARA SEC. 8, T16S, RISWITS SLB&M
below.) AT SURFACE: 2629' N & 5130' W of SE Cor Sec 8	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL:	Millard Utah
AT TOTAL DEPTH:	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	60 (2) (2) (3) (4) (4) (5) (4) (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6
FRACTURE TREAT U U SHOOT OR ACIDIZE U	on a succession of the success
REPAIR WELL	(NOTE: Report results of multiple completion or zone
PULL OR ALTER CASING	change on Form 9-330.) 5 7 6 5 0 g
MULTIPLE COMPLETE	
ABANDON	irocarbon shows encountered a second
(other)	. 04 원 경기 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전
<ol> <li>DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is dimeasured and true vertical depths for all markers and zones pertinent</li> </ol>	rectionally drilled, give subsuriace idealions and
1) Ran open ended DP to 13,499' & pumped in 85 c. to equalization @ 13,299'.	f. 1:1 G Poz 1 2% gel + 0.6% HR-7
2) Pulled to 10,501' & pumped in 85 c.f. of 1:1 (equalization @ 10,301'.	5-Poz + 2% gel \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
3) Pulled to 7,699' & pumped in 85 c.f. 1:1 G-Poz	z + 2% gel to equalization @ 7,499.
4) Pulled to 5,160' & pumped in 65 c.f. 1:1 G-Poz	### ##################################
5) Pulled to 2,155' & pumped in 85 c.f. 1:1 G-Poz @ 1,955'.	z + 2% gel + 3% CaCl2 to equalization
6) Pulled to 594' & pumped in 50 c.f. 1:1 G-Poz	+ 2% gel + 3% CaCl2 to equalization.
Note: This abandonment procedure is as per d	iscussion w/R. Henricks of USGS Sal
Subsurface Safety Valve: Manu. and Type	Set @ 3 3 5 Ft Lake
18. I hereby cortife that the foregoing is true and correct  Division Man	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(This space for Federal or State of	fice use)
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APPROVED BY TITLE TITLE	95014 95014 95014 95014
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TIGER OIL CO.

BISHOP SPRINGS NO.

DST #2 (#/= //wsrum)

TEST INTERVAL = 11,805/15/184

C38/5

FF 484per

TEST SR PS.

Took 2 hr. 5 mm. Flow test. Had 10 min weak blow then thr. 50 min cleed at surface. Tried to shut in tool of packers failed allowing mud to surge thru test toul. Tooks drug coming out of hole. Faund 3/3 of rubber gone from packers and all packers torn up. Pressure class from top chart showed I'H. = 6997 ps;; IF = 8/ps; F.F. = 489 ps; 403 ps; build up which occurred thrubut test in spite of no surface indication of uny last thr. 50 min. Fluid in drup collars below reversing tool was mud w/ no exidence of oil or water. Note: Rat hole volume below packers was 22 bbb. - Calculated fluid entry because of build up was 6 bbbs. Therefore fluid recovered in collars was probably rat have instead of formation fluid.

HALLIBURTON - TEST CO. T. TESTOR'S RANOX RIBELE

TEST REPORT BY: F.L. CLAWSON

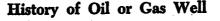
A Division of H	HALLIBURTON Comp	pany		API WELL		OUNTY	WE	LL	S/
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API HP HT Filtrate (ml/30 min) at	°F	•		# # *** *** *** *** *** *** *** *** ***					
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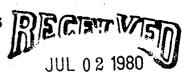
### WELL SUMMARY REPORT

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All dep	th measureme	ents taken from	ı top of	K.E	3.			which is 21	feet abo	ve ground.
									erewith is a cor	
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(A. P. I.)	Depth of Shoe 522 ' 542 '	Top of Casing O' O'	54#	J-55, N-80	ST&C	Present Casing  D, LT&	New or Second Hand New C Used		of Cement 425 sx. 340 c.f.	Depth of Ceme if through perforation
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ize of Casing (A. P. I.)  3-3/8"  9 5/8"	Depth of Shoe 522 ' 542 '	Top of Casing O' O'	54# 40# tom, perfora	J-55, N-80	ST&C & S-95 ERFORATED rvals, size	Present Casing Casing Casing	New or Second Hand  New  C Used  cing of perfo	12 1/4"	of Cement 425 sx. 340 c.f.	Depth of Ceme if through perforation
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(A. P. I.)  3-3/8"  9 5/8"  Was the we	Depth of Shoe 522 ' 542 '	Top of Casing  O'  O'  (Size, top, bot	54# 40#  stom, perfora	J-55, N-80  Prated inter	ST&C  & S-95  ERFORATED vals, size a	CASING and spa	New or Second Hand New C Used cing of perfo	12 1/4"	of Cement 425 sx. 340 c.f.	Depth of Ceme if through perforation

# RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION

### DIVISION OF OIL AND GAS





337-11	Bishop	Springs	#1		Field or County	TH	D. C. RCLOWAINII	NO B. & M
A.P.I. No		,	N	ame Floyd	L. Clawson (Person submitting report)		Title LLLY M	lanager cretary or Agent)
					Signa	ture		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Suite	1500 Fi	ve Greenw	ay Plaza	East, Hous	ston, Texas 7	7046	(713) 629 (Telephone	

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date

4/10/80

Rigged up and drilled rat hole w/kelly spinner. Installed 1" BOE lines and tested to 1000 psi. Drilled out 15' cement plug. Mud wt. 8.6. Vis. 37.

4/11/80

Tried to drill rat hole w/no progress. GIH w/mill, junk sub, bit & D.C. and hit bridge @ 26'. Cleaned out bridge of rags and clay material from 55'-65'. Circ. came up through cellar and fluid level dropped to 26' and penetration nearly stopped. L.D. mill and junk sub and P.U. 8 3/4" bit and cleaned out from 65'-70'. Bit stuck and packed off. Worked stuck pipe, backed off leaving bit, sub and D.C. in hole (33.6'). Made up jars, screwed into fish and jarred on fish. Jars failed. Backed off leaving bit, sub, D.C., X/O, jars & X/O in hole (53'), stuck @ 70' w/top @ 17'. Mud wt. 9.2. Vis. 37.

4/12/80-4/13/80 While W.O. fishing tools, P.U. dyna drill and drilled 8 3/4" rathole. Shuck stopped @ 8' w/12½" spade on bottom. Welder cut off spade on shuck. L.D. kelly and backed off of fish at bottom D.O. Dyna drilled and reamed rat hole. Worked shuck into hole and left shuck 8' above floor. RIH with fishing tools (overshot, grapple and lift sub) and jarred on fish w/200,000#. Fish moved 3" and parted on lift sub on top of fishing string. R.U. and ran Dialog and established free point - stuck at bit only. Tried to back off but bumper sub or jars tried to unscrew. Mud wt. 8.6. Vis. 38-29.

4/14/80

Jarred and moved fish 12" when jars failed. Changed jars and jarred fish again, moving fish 1" - jars failed. Backed off @ top of D.C. fish. L.D. jars and P.U. 12½" bit and RIH and C.O. cement f/27'-29' working down to T.O.F. Regained partial circulation. Circ. and worked pipe. M.U. wash-over assembly (12 1/8" sawtooth mill, ext. drive sub, jars, X/O, kelly) and RIH. Could not get over fish. Changed to 10 3/4" O.D. opensided mill w/scallop bottom. Went over top of fish and worked pipe 9' over fish. Had full circ., then lost fluid to cellar @ 39'. Worked pipe. L.D. fishing tools, P.U. dynadril w/12 ½" bit, RIH and drilled and reamed rat hole. Worked shuck into rat hole using kelly weight last 5'. Mud wt. 8.7. Vis. 42.

4/15/80

P.U. new jars & 5' extension sub, RIH and worked over fish f/9'-14'. Worked pipe ok. POOH and added 4½' extension and worked over fish f/14'-18½'. L.D. extension sub and P.U. and RIH w/30.87' of 9 5/8" wash pipe. Slipped W.P. over fish and worked over fish to 2' above bottom of fish. Pulled up and had drag f/7' and set down @ 58' or 7' above bottom of fish. POOH and bottom tungsten carbide on scalloped mill was ok, but bottom 2' outside was badly scarred from bad casing. Ran jars and D.C. screwing into fish and pulled fish out of hole w/o setting off jars. RIH w/12 1/8" mill and milled on tight spot f/35'-40" and went in hole to 60' ok. P.U. junk sub and bumper sub. Mud wt. 8.9. Vis. 40.

History of Oil and Gas Well Bishop Springs No. 1 Page 2

- Drilled out cement f/410'-470'. POOH and found cement, metal, cherty shale in junk sub. RIH and drilled out cement f/470'-535'. Test BOP and choke manifold to 1,000 psi. Drilled out cement and formation f/535'-537'. POOH, L.D. junk sub and RIH w/12 ½" bit. No tight spots or fill. Reamed f/470'-537'. Drilled out cement and formation f/537'-542'. Mud wt. 8.8. Vis. 46.
- Ran 9 5/8", 40#, N-80, & S-95, LT&C to 542' w/insert valve @ 498'. Cemented w/10 bbls. water ahead, 340 c.f. 1:1 G-Poz + 2% gel and 2% CaCl2 + 1/4# flocele per sack. Used 64% excess cement w/10 c.f. cement returns. CIP @ 10:47 a.m. Float failed to hold. Left Haliburton head on casing W.O.C. Tore out BOP and landed casing and nippled up BOP's.
- 4/18/80 Ran 8 3/4" bit and drilled baffle @ 498' and cement to 530'. Tested BOP, choke manifold and kelly cock to 1,000 psi. Drilled out cement to 542', cleaned out old hole and circ. down to 2,372' w/no bridges or lost circ. Recovered LCM from old hole. Mud wt. 8.7. Vis. 39.
- 4/19/80- Circ. and clean out to 6182'. Hit sand bridge @ 6192' and cleaned out w/no problems.
  4/21/80 Swept hole @ 7500' w/gel-sawdust pill. Cleaned out to 9,051' T.D. Changed over to non-dispersed gelex mud w/8.8 ppg. & Vis. 40-35.
- 4/22/80— Drilled f/9,051'-9,925'. Mud wt. f/ 8.0 9.1 and vis. f/37-46. 4/25/80
- 4/26/80- Drilled f/9,925'-10,236'. Mud wt. 8.8 8.9 and vis. 42-53. 4/27/80
- 4/28/80- Drilled f/10,236'-10,470'. Mud wt. f/9.9-8.9 ppg. and vis. f/40-38. 4/30/80
- 5/1/80- Drilled f/10,470'-10,702'. Mud wt. 8.9 ppg. and vis. 40-42. 5/2/80
- 5/3/80- Drilled f/10,702'-11,308'. Inspect drill collars and BHA. Mud wt. 8.9 ppg. and 5/6/80 vis. f/45-44.
- 5/7/80- Drilled f/11,308'-12,581' w/reaming @ 11,820'-11,911'. Reamed f/12,520'-12,581'. 5/14/80 Drilled to 12,593'. Mud wt. 8.9 ppg. 9.0 ppg. and vis. 45-40.
- 5/15/80- Drilled f/12,593'-13,466'. Mud wt. f/9.2-8.9 ppg. and vis. 41. 5/19/80
- 5/20/80- R.U. Welex and ran Gamma Frac-Finder Micro-seis, Dual Induction and G-CDN log. 5/21/80
- 5/22/80 Reamed f/13,409'-13,480'. Measured in and corrected depth (+14') to 13,480'. Drilled to 13,542'. Mud wt. 8.9 ppg. Vis. 40.
- 5/23/80- Drilled f/13,542'-14,119'. Mud wt. 8.9 9.0 ppg. and vis. 42-39.
- 5/27/80 Drilled f/14,119'-14,181'. Hit tight spots at 13,733' and 13,582'. Drilled to 14,340'. Mud wt. 9.0 ppg. and vis. 40.
- 5/28/80 Wiper trip. Tight hole pulling out at 13,642'. Drilled to 14,408'. Mud wt. 9.1 ppg. and vis. 48.
- 5/29/80 Drilled to 14,496'. Mud wt. 8.9 ppg. and vis. 42.

5/26/80

5/30/80 Tight spots @ 13,600' and 13,650'. Drilled to 14,582'. Short trip had tight spots @ 13,600' and 13,585' POOH. Drilled to 14,661'.

History of Oil and Gas Well Bishop Springs No. 1 Page 3

- 5/31/80 Drilled to 14,677' and dropped survey. Tripped 62 stds to retrieve survey and drilled to 14,807'. Tight hole @ 13,600' on short trip. Mud wt. 8.9 and vis. 43.
- 6/1/80 Drilled to 14,915'. On short trip, tight hole @ 13,690', 13,645' and 13,600'. Drilled to 14,946'. Dropped survey. Tight hole while POOH @ 13,600'.
- 6/2/80 Changed bit, stab. & keyseat wiper leaving out 3 D.C.'s and 6 jts. heavy weight to lighten hook load. Reamed tight spot f/914'-922' and lost returns. Regained returns and reamed through bridge. Drilled to 15,030'. Mud wt. 8.7 and vis. 44.
- 6/3/80 Drilled to 15,040'. On short trip, tight spot @ 13,690' and 13,600'. Drilled to 15,114'. On short trip, tight spots @ 13,690'. Drilled to 15,167'. Mud wt. 8.8 and vis. 43.
- 6/4/80 Drilled to 15,186' w/no tight spots. Mud wt. 8.9 and vis. 42.
- 6/5/80- Circ. and cond. hole for logging. R.U. Welex and tagged bottom @ 15,190'. Ran 6/6/80 Induction, Density and Frac Finder logs. Mud wt. 8.9-8.8. Vis. 42-47.
- 6/7/80 Attempted D.S.T. #1 f/14,888'-15,186' and packers failed 3 times. P.O.O.H.
- 6/8/80 W.I.H. w/Drill Stem Test tools and triple packers and R.U. D.S.T. lines and flow tested.

### D.S.T. #1 Results:

Weak flow for 10 min. w/no blow last hr. & 50 min. Tried to shut in and packers failed and filled up D.P.

D.S.T. Pressure Results w/2 hr. 5 min. flow period (see attached chart):

IH - 6997 psi

IF - 81 psi

FF - 484 psi

FH - 6464 psi

Lost approx. 200 bbls. mud while tripping and testing (probably in shallow zones). Had to drag and jar tools out and left most of packer rubbers in hole.

- 6/9/80-6/10/80 R.I.H. to 8,990'. Circ. sawdust pill around and cond. mud. Hole stood full of mud. Finished reaming to bottom. Drilled to 15,346'. Mud wt. 8.8-8.9 and vis. 38-42.
- 6/11/80 Drilled to 15,492' and hit tight spots on trip @ 14,995' and 14,411' and again on short trip @ 14,995'. Mud wt. 8.8 and vis. 42.
- 6/12/80 Drilled to 15,625'. Tight spots on short trip @ 14,995'. Mud wt. 8.9 and vis. 44.
- 6/13/80 Tight spots @ 15,431'-15,240'. Drilled to 15,753'. Mud wt. 8.9 and vis. 43.
- 6/14/80- Drilled to 15,772'. No tight spots on short trip. Circ. and cond. for logging.
  6/15/80 Rigged up Welex and ran Dual Induction and FDC logs. Reamed tight spots @ 12,500'12,570' and 15,700'-15,772'. Drilled to 15,792'. Mud wt. 9.0 and vis. 45.
- 6/16/80 Reamed f/15,725'-15,793'. Drilled to 15,804'. Mud wt. 8.8 and vis. 59.
- 6/17/80 Drilled to 15,994'. No tight spots. Mud wt. 8.9 and vis. 44.
- 6/18/80 Drilled to 16,058' T.D. Prepared to P & A.

History of Oil and Gas Well Bishop Springs No. 1 Page 4

6/19/80

With D.P. @ 13,494', laid 85 cu. ft. of 1:1 G-Poz + 2% gel + 0.6% HR-7 plug f/13,294'-13,494'. With D.P. @ 10,501', laid 85 cu. ft. of 1:1 G-Poz + 2% gel + 0.6% HR-7 plug f/10,301'-10,501'. With D.P. @ 7,699' laid 85 cu. ft. 1:1 G-Poz + 2% gel plug f/7,499'-7,699'.

6/20/80-6/21/80 With D.P. @ 5160', pumped in 65 cu. ft. 1:1 G-Poz + 2% gel to equalization @ 5010'. With D.P. @ 2155', pumped in 1:1 G-Poz + 2% gel + 3%  $CaCl_2$  to equalization @ 1955'. With D.P. @ 594', pumped in 50 cu. ft. 1:1 G-Poz + 2% gel + 3%  $CaCl_2$  to equalization @ 490'. Cemented with 65 cu. ft. 1:1 G-Poz + 2% gel + 3%  $CaCl_2$  through D.P. @ 65'. Tore out BOP, kelly, swivel, etc. Top of cement at surface.

6/22/80**-**6/23/80 Cleaned pits, laid down derrick, T.O. Mud lines, etc. Released rig @ 4 p.m.

(Rev. 8-48)		N ED S					PUPLICA'	er in-	P.	orm appr adget Bu	roved. reau No. 42-R355.5.	
g   25   15   15   15   15   15   15   15	DEPARTM GEO	EU OF DLOGICAL			ERIOR		reverse	on -	5. LEASE DES U 26743		E C. S. C.	
WELL COM	APLETION: OI	R RECOM!	PLETIC	ON R	EPORT A	ANI	LOG	*	6. IF INDIAN,	ALLOTTI	OR TRIBE NAME	
IL TYPE OF WELL		- GAS							7. UNIT AGRE	EMENT )	AMB	
L TYPE OF COMPLETION:										- :		
WELL	OTER L EN A	PLDG D	EE8VI		Other				S. FARM OR .: Federal		MB	
	dba Tiger Oi	1 Company	:	- <b>1</b>				-	9. WELL NO.			
8. ADDRESS OF OFER					:	<u> </u>			#1 - US	SA Bis	shop Springs	
	ay Plaza Eas								10. FIRED AN Wildcar	D POOL,	OR WILDCAT	
4. LOCATION OF WELL	L (Report location class) Por FSL; 5130						:	-	11. SEC., T., 1	M., OK	BLOCK AND SURVEY	
	erval reported below	I DD, DCC		<u>ري ر</u>	ii,		* **		OR AREA			
			<u></u>		•		:		8-T16S	-R17W	a	
At total depth			14. PER	MIT NO.	<u>-</u> -	DATE	ISSUED	].	12. COUNTY (	) <u>)</u>	18. STATE	
					1	7/6	/79		Millard	•	Utah	
15. DATE SPUDDED	16. DATE T.D. REACE	ED 17. DATE	COMPL. (.	Ready to				, REB, R	r, GR, ETC.)*	19. EL	EV. CASINGHEAD	
re-entered 4/10/80	6/17/80	Dry ho	le-P&.	A 6/1		792	GR 1 23. INTE		BOTARY TOO		N/A	
20. TOTAL DEPTH, MD	well pl	ugged to			TIPLE COMPL., ANY	'		PATE		L48	CABLE TOOLS	
16,058'	Surface		1 .	Non	(D AND TVD)*	<del></del>	! <del></del>	<u>→                                     </u>	<u> </u>		WAS DIRECTIONAL	
	NONE										NONE	
		· · · · · · · · · · · · · · · · · · ·					<del></del>			37	WELL CORED	
26. TYPE ELECTRIC A	etion Guard,	Comp. Den	s. Ne	utron	Fractu . Micro-				1	No		
28.					ort all strings				<u>_</u>			
CASING BIZE	WEIGHT, LB./FT.	DEPTH SET			LE SIZE			ENTING I	RECORD		AMOUNT PULLED	
13 3/8"	54.5	522				4	75 \$ac	ks	None			
9 5/8"	40.0	5421	,	12	1/8"		40_cf	<u>l to</u>	1	-	None	
		_					-POZ		<del></del>			
29.	LIN	ER RECORD					30.	7	UBING REC			
SIZE	TOP (MD) BO	TTOM (MD)	ACES CE	MENT*	SCREEN (M	D)	SIZE	—I—	DEPTH SET (N	(D)	PACKER BET (MD)	
None				<del> </del>	ļ <del></del>		None					
81. PERFORATION RE	CORD (Interval, size a	nd number)			82.	AC	ID, SHOT	FRACT	URE, CEMEN	T SQUE	EZE, ETC. cemen	
None - dr	y hole no pro	duction			DEPTH IN	TERVA	r (MD)				ATERIAL COED	
Casing se	t - well plug	ged and a	bando	ned	7699	, 10	,301;	85 c	.f. Type	G 1:	1 POZ	
					5160			65 c			1 P0Z	
					1955 594		<del>- "</del>	85 c			1 POZ 1 POZ	
83.*				PRO	DUCTION				- 1 - 1 Y 1 / 1			
None	TION PRODUCT	METHOD (F)	oroing, g	ae lift, p	rumping—eise	and t	type of put	np)	WELL	<b>~4</b> _1 _ \	(Producing or )ry hole	
DATE OF TEST	HOURS TESTED	CHOKE SIZE		N. FOR PERIOD	OIL—BBL.		GA8-N	CF.	WATER-BR	L (	AS-OIL BATIO	
FLOW, TURING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-	BBL.	GAB-	-MCF.		WATER-	-BBL.	OIL GR	AVITY-API (CORR.)	
		<del>&gt;</del>			-							
None	- dry hole	el, vented, etc.)				·			None -			
85. LIST OF ATTACE None	MENTS						•					
36. I hereby certify	that the foregoing	ind affached in	formation	is com	plete and cor	rect a	s determin	ed from	all available	records		
SIGNED /	W. gran	relly	_ TI	TLE _	Enginee	r	<u>., .</u>		DAT	<b>E</b>	1/30/81	
<u></u>	. W. Sponsel	LET			A 1.15							

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## INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 83, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.); formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

should be instead on this form, see item of.

If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State

or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified for each additional interval to be separately produced, showing the additional data pertinent to such interval.

19cm 29: "Sacks Coment": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

19cm 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

87. SUMMARY OF PORCE SHOW ALL IMPORT DEPTH INTERVAL	TOP	BOTTOM	DESCRIPTION, CONTENTS, STC.	
116			NAME MEAS, DEPTH TRU	9 VIIRT. 981
vician-Eureka	10,0941	10,325'	Quartzite, not tested Ordovician	3
	<b>:</b>		Fish Haven 9,310	310
vician-Fillmore	12,334'	14,106'	Theelbedded Tamoseone and States, in	0,094 <sup>0</sup>
			Lehman 10,692 10	0,692_
			Kanosh 3 11,054 11 Juab 11,424 11	1,054 <u>/</u> 1,424
r Cambrian				674
Dam	14,848'	15,250'	Fillmore 12,334   12	2,334
			House 14,106 14	,106U
11/2			Upper Cambrian	
17	• .		Lava Dam 14,848 14	1,848 
	••			
				2

\* and

### Form 9-898 (April 1968)

# +

# 43-027-11476 UNITED STATES

# DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY CONSERVATION DIVISION

T	165
_	170

Sec. 8\_\_\_\_\_

•										
INDIVIDUAL	WELL	<b>RECORD</b>								

SL	Mer.

PUBLIC L	AND:			Da	toE	ebruary	4.19	981_		Ref. N	To2	
Land offi	ce	Uta	h			_ Stat	æ	Utah		,		<del></del>
Serial N	0	2674	43			Cou	nty	M1]]	ard			
Lessee	Me	rle C.	Chamb	ers		Fiel	d	Milq	cat			
Operator	Ed	ward M	ike Da	vis		_ Dis	rict	Salt	Lake	City_		
Well No.	#1	USA B	<u>ishop</u>	Spr1ng	<u>s</u>	Sub	division	1	NW SW			
	comme ceased cased mment a	encedMay	April 17 mm Ma i Oli ons it tested	10 1y 19	, 19_7 , 1980 , 19_8 , 19_8	7. Well Tot 0. Init 0. Gra 1. Init Name	al depth ial productivity A. ial R. I	ion	579 058 Dry Jorisons Depthe	2		feet
WELL ST												
YEAR	Jan.	FEB.	MAR.	APR.	MAT	JUNE	July	Avg.	Вврт.	OCT.	Nov.	DEC.
1980 1985				spud	TD 160 ABD	58						PHA
									, possession			
REMARKS				ers: se								
***************************************	Ça	sing r	ecord	9 5/8	/8" cc (	6.522' .542'	w/47! w/340	- 2X2 				
			 ☆ ∪.S. Go	vernment	Printing O	ffice: 1979	- 680-20	1/613				

July 10, 1981

Tiger Oil Company Sgite 1500 Five Greenway Plaza East Houston, Texas 77046

> Re: Well No. Bishpp Springs #1 Sec. 8, T. 16S, R. 17W Millard County, Utah

#### Gentlemen:

This letter is to advise you that the Well Completion or Repompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very traly yours,

DIVISION OF BIL, GAS, AND MINING

Sandy Bates Clerk-Typist

/lm Enclosures 4241 State Office Building • Sam Lake City, UT 84114 • 801-533-5771

July 13, 1982

Tiger Oil Company
- Five Greenway Plaza East, Suite 1500
Houston, Texas 77046

Re: Well No. Bishop Springs #1 Sec. 8, T. 16S, R. 17W. Millard County, Utah

Tenicie Al Revno da Expost Le 1 April Diebri Bi Felanti Division Directo

### Gentlemen:

F

According to our records, a "Well Completion Report" filed with this office January 1, 1981, from above referred to well, indicates the following electric logs were run: Dual Induction Guard, Compensated Density Neutron, Fracture Finder Micro-Seismogram. As of todays date, this office has not received these logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse Clerk Typist



State of Utah Natural Resources & Energy Division Of Oil, Gas & Mining 4241 State Office Building Salt Lake City, Utah 84114

> Bishop Springs #1 Re: Sec. 8, T16S, R17W Millard County, Utah

Gentlemen:

Per your request of July 13, 1982, please find enclosed the following logs:

> Dual Induction Guard Compensated Density Neutron Fracture Finder Micro-Seismogram

As you will note, the Fracture Finder Micro-Seismogram log is a field print. We do not have a final print to send you. Also, subsequent to running these logs, well was drilled to a TD of 16,058' but no other additional logs from bottom of hole from 15,772' to 16,058' were run.

Please acknowledge receipt of the enclosed logs by signing below and returning one copy of this letter to our office.

Yours truly

ABOVE LOGS RECEIVED THIS		
DAY OF	_,	1982
Ву:		



July 29, 1981

Ms. Sandy Bates
State of Utah
Dept. of Natural Resources
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Re: Well No. Bishop Springs #1 Sec 8, T16S, R17W Millard County, Utah

Dear Ms. Bates:

Enclosed are two copies of "Well Completion or Recompletion Report and Log" for the above well, as requested by your letter of July 10, 1981. We apologize for failing to send copies to you when originally filed with U.S.G.S.

Yours very truly

V. W. Sponseller

VWS/kh Enc.

DETAIL WELL DATA menu: opt 00 11/08/93 twnshp range qr-qr 4302711476 prod zone: sec api num: 17.0 W 8 16.0 S NWSW

99998 : PA/LA/TA entity:

well name: BISHOP SPRINGS UNIT #1 operator: P0115 : TIGER OIL CO meridian: S

1 : WILDCAT field:

confidential expires: alt addr flag: confidential flag:

\* \* \* application to drill, deepen, or plug back \* \* \*

OW well type: lease number: U-26743 lease type: 1

2629 FSL 5130 FEL unit name: surface loc:

prod zone loc: 2629 FSL 5130 FEL depth: 17500 proposed zone: 771026 auth code: C-3 apd date: 5792' GR elevation:

la/pa date: date recd: \* \* completion information \* \*

compl date: 800619 total depth: 16058' spud date: 800410

producing intervals:

well status: bottom hole: 2629 FSL 5130 FEL first prod: gas/oil ratio: 24hr water: 24hr oil: 24hr gas: api gravity: \* \* well comments:

RE-ENTRY; ORIG APD 9-18-52:

opt: 21 api: 4302711476 zone: date(yymm): enty acct: